

AD-A016 913

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS
SIBERIAN COASTAL MARINE AREAS. VOLUME 3.
AREA 15 - OKHOTSK SEA NE, AREA 16 - WEST COAST
KAMCHATKA, AREA 17 - TATAR STRAIT N, AREA 18 -
TATAR STRAIT S, AREA 19 - OKHOTSK SEA SW, AREA
20 - SAKHALIN ISLAND SE, AREA 21 - OKHOTSK SEA SE

Naval Weather Service Command

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U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS SIBERIAN COASTAL MARINE AREAS

VOLUME 3

AREA 15 - OKHOTSK SEA NE
AREA 16 - WEST COAST KAMCHATKA
AREA 17 - TATAR STRAIT N
AREA 18 - TATAR STRAIT S
AREA 19 - OKHOTSK SEA SW
AREA 20 - SAKHALIN ISLAND SE
AREA 21 - OKHOTSK SEA SE



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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface Observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Okas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ($^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

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AREA	NAME	PAGES
15	Okhotsk Sea NE	001-079
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18	Tatar Strait S	226-304
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20	Sakhalin Island SE	366-432
21	Okhotsk Sea SE	433-511

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CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.

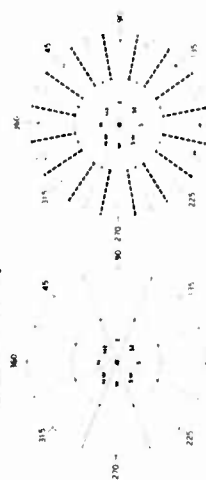


Fig 1. The 8 point direction system.

Fig 2. The 16 point direction system superimposed on the 8 point system.

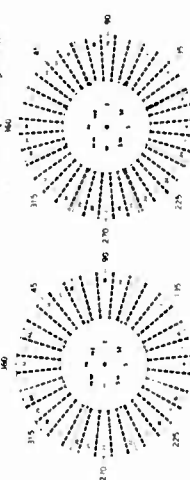


Fig 3. The 32 point direction system superimposed on the 8 point system.

Fig 4. The 36 point direction system superimposed on the 8 point system.

DIRECTION AND WEATHER CODES

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)			
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION	CODE	INTERPRETATION
90-93	VV<1/2	58-59 60-65 91-94 (68-69, 95, 97 IF TEMP >40° F)	RAIN	10-12 } 40-49 }	FOG (WITHOUT PRECIPITATION)
94	1/2≤VV<1	80-82, (83-84 IF TEMP >40° F)	RAIN SHOWERS	28 }	FOG (WITHOUT PRECIPITATION) PAST HOUR
95	1≤VV<2	50-55, 58-59 }	DRIZZLE	04-05 }	SMOKE HAZE
96	2≤VV<5	56-57 66-67 }	FREEZING PRECIPITATION	06-09 } 30-39 }	SPRAY BLOWING DUST BLOWING SNOW
97	5≤VV<10	70-75, 85-86 (68-69, 83-84, 95, 97 IF TEMP ≤40° F)	SNOW	00-03 } 14-16 } 18 }	NO SIGNIFICANT WEATHER AT OB TIME
98	10≤VV<25	76-79 }	OTHER FROZEN PRECIPITATION	00-49 }	NO PRECIPITATION AT OB TIME
99	VV≥25	87-90 93-94 96, 99 13, 17 19, 29 95-99	HAIL THUNDER LIGHTNING THUNDERSTORM	50-99 }	PRECIPITATION AT OB TIME
99	VV≥25			20-27 }	PRECIPITATION PAST HOUR

NOTE: <means less than;
>means greater than;
≤means less than or
equal to; ≥means
greater than or equal to.

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}		37	>18.25 to 18.75	
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		38	>18.75 to 19.25	61-70
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	39	>19.25 to 19.75	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		40	>19.75 to 20.25	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		41	>20.25 to 20.75	
			24	>11.75 to 12.25}		42	>20.75 to 21.25	
			25	>12.25 to 12.75}		43	>21.25 to 21.75	71-86
			26	>12.75 to 13.25}		44	>21.75 to 22.25	
			27	>13.25 to 13.75}	41-48	45	>22.25 to 22.75	
			28	>13.75 to 14.25}		46	>22.75 to 23.25	
			29	>14.25 to 14.75}		47	>23.25 to 23.75	
						48	>23.75 to 24.25	
						49	>24.25 to 24.75	
						50	>24.75 to 25.25	
						51	>25.25 to 25.75	
						52	>25.75 to 26.25	
						53-99	>26.25 to 49.75}	≥87

Indeterminate=INDET

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

JANUARY

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	1.9	.0	.0	21.5	2.5	.0	24.1	2.5	.0	.0	.0	.0	.0	73.4
NE	.0	.3	.0	.0	11.4	.0	.0	11.4	1.3	.0	5.4	.0	1.7	.0	80.1
E	.0	3.8	.0	.0	30.3	.0	.0	34.3	.0	.0	3.8	.0	2.9	.0	59.0
SE	.0	.0	.0	.0	15.4	.0	.0	15.4	.0	.0	.0	.0	.0	.0	84.6
S	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	14.3	.0	.0	.0	52.4
SW	.0	.0	.0	.0	63.4	.0	.0	63.4	.0	.0	12.2	.0	.0	.0	24.4
W	.0	.0	.0	.0	31.9	.0	.0	31.9	1.8	.0	7.9	.0	.0	.0	58.6
NW	.0	.0	.0	.0	38.8	.0	.0	38.8	.4	1.6	8.1	.0	1.6	.0	51.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	80.0
TOT PCT	.0	.7	.0	.0	26.3	.3	.0	27.0	1.4	.3	5.5	.0	1.0	.0	65.1
TOT OBS:	289														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	.0	.0	.0	.0	20.8	.0	.0	20.8	.0	.0	6.3	.0	.0	.0	72.9
0600	.0	1.1	.0	.0	21.1	.0	.0	21.1	2.2	.0	7.8	.0	.0	.0	68.9
1200	.0	.0	.0	.0	30.7	1.3	.0	32.0	2.7	1.3	1.3	.0	2.7	.0	61.3
1800	.0	1.9	.0	.0	30.2	.0	.0	32.1	1.9	.0	5.7	.0	1.9	.0	58.5
TOT PCT	.0	.6	.0	.0	24.8	.3	.0	25.5	1.6	.3	5.4	.0	1.0	.0	66.6
TOT OBS:	314														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.0	3.5	6.3	2.5	1.4	.0	13.7	18.0	12.4	.0	12.8	.0	14.9	.0	16.5	.0	.0
NE	.4	7.8	12.6	4.7	1.1	.0	26.6	18.4	30.3	100.0	26.5	.0	24.6	.0	21.0	.0	.0
E	.0	3.5	3.6	1.2	.4	.0	8.7	14.3	6.5	.0	11.6	.0	8.2	.0	8.5	.0	.0
SE	.0	1.5	2.9	.7	.0	.0	5.2	13.9	5.9	.0	8.6	.0	3.0	.0	.6	.0	.0
S	.0	1.0	.4	.0	.0	.0	1.6	11.9	1.2	.0	2.1	.0	1.5	.0	1.7	.0	.0
SW	.0	1.9	1.4	.0	.0	.0	3.3	10.4	2.9	.0	3.0	.0	4.5	.0	2.8	.0	.0
W	.0	3.4	8.6	3.7	.6	.0	16.4	16.8	17.1	.0	15.2	.0	16.8	.0	17.0	.0	.0
NW	.0	5.6	11.5	6.0	.4	.0	23.5	17.2	22.6	.0	20.2	.0	23.0	.0	29.5	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.2	.0	.0	.0	1.5	.0	2.3	.0	.0
TOT OBS	4	79	134	53	11	7	281	16.1	85	1	84	0	67	0	44	0	0
TOT PCT	1.4	28.1	47.7	18.9	3.9	.0	100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	.0	.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	1.2	6.6	3.2	2.7	.0		13.7	18.0	12.2	12.8	14.9	16.5		
NE	2.0	12.2	10.2	2.2	.0		26.6	18.4	31.1	26.5	24.6	21.0		
E	1.3	4.4	2.6	.0	.4		8.7	14.3	6.4	11.6	8.2	8.5		
SE	.7	2.6	1.9	.0	.0		5.2	13.9	5.8	8.6	3.0	.6		
S	.4	1.0	.3	.0	.0		1.6	11.9	1.2	2.1	1.5	1.7		
SW	1.1	1.6	.6	.0	.0		3.3	10.4	2.9	3.0	4.5	2.8		
W	1.1	8.9	5.2	1.6	.0		16.4	16.8	16.9	15.2	16.8	17.0		
NW	2.0	9.7	9.8	2.0	.0		23.5	17.2	22.4	20.2	23.0	29.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.1						1.1	.0	1.2	.0	1.5	2.3		
TOT OBS	39	132	95	24	1	281	16.1		86	84	67	44		
TOT PCT	10.3	47.0	33.8	8.5	.4		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

JANUARY

AREA 0015 OKHOTSK SEA NE
55.1N 159.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.2	1.2	30.2	52.3	12.8	2.3	.0	14.7	100.0	86
0600Z	.0	.0	28.6	46.4	17.9	7.1	.0	16.8	100.0	84
1201Z	1.5	.0	32.8	34.3	28.4	3.0	.0	16.6	100.0	67
1802Z	2.3	.0	19.9	61.4	18.2	2.3	.0	16.8	100.0	44
TOT	3	1	79	134	53	11	0	16.1		281
PCT	1.1	.4	28.1	47.7	18.9	3.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	2.2	3.2	4.2		5.6
NE	3.4	2.3	9.6	8.1		5.8
E	.3	.3	1.7	6.3		7.1
SE	.9	.9	2.4	1.8		5.6
S	.5	.0	.0	1.9		6.4
SW	.1	.0	2.5	1.6		6.6
W	2.1	2.3	8.1	6.8		6.1
NW	2.4	1.9	8.6	10.0		6.1
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	.0	.5	219	3.0
TOT OBS	26	23	79	91		6.0
TOT PCT	11.9	10.5	36.1	41.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION						AND DEGREE OF WIND ≤ 50 BY WIND DIRECTION												
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH ANY HGT	TOTAL OBS
							149	299	599	999	1999	3499	4999	6499	7999			
N	1.3	2.2	3.2	4.2		5.6	.0	.0	.5	.0	3.0	2.3	.0	1.4	.0	.0	3.8	
NE	3.4	2.3	9.6	9.1		5.8	1.0	.0	.0	.1	3.4	8.3	.9	1.8	.5	.0	7.3	
E	.3	.5	1.7	6.5		7.1	2.2	.0	.3	.3	1.1	3.4	.0	.5	.0	.0	1.1	
SE	.9	.9	2.4	1.8		5.6	.1	.0	.2	.5	1.0	.1	.9	.0	.9	.0	2.3	
S	.5	.0	.0	1.9		6.4	.7	.0	.3	.5	.5	.0	.0	.0	.0	.0	.5	
SW	.1	.0	2.5	1.6		6.6	.6	.0	.0	.5	.6	1.6	.9	.0	.0	.0	.1	
W	2.1	2.3	8.1	6.8		6.1	2.1	.0	.0	.0	4.7	6.4	.5	.0	.5	.0	5.3	
NW	2.4	1.9	8.6	10.0		6.1	3.4	.0	.0	.9	6.3	4.8	2.3	.0	.5	.0	4.8	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.5	.0	.5		3.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	1.4	
TOT OBS	26	23	79	91	219	6.0	22	0	3	6	45	59	12	8	6	0	58	
TOT PCT	11.9	10.5	36.1	41.6	100.0		10.0	.0	1.4	2.7	20.5	26.9	5.5	3.7	2.7	.0	26.5	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>5000	3.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
>3500	4.8	10.5	10.9	11.4	11.4	11.4	11.4	11.4
>2000	15.3	27.9	36.2	38.0	38.4	38.4	38.4	38.4
>1000	18.3	34.1	46.7	50.7	56.3	57.2	59.0	59.0
>600	19.2	35.4	48.5	52.4	58.1	59.8	61.6	61.6
>300	19.2	35.8	49.3	53.7	59.4	61.1	62.9	62.9
>150	19.2	35.8	49.3	53.7	59.4	61.1	62.9	62.9
>0	19.7	37.6	53.3	59.4	66.8	69.9	72.9	72.9
TOTAL	45	86	122	136	153	160	167	167

TOTAL NUMBER OF OBS: 229

PCT FREQ NH <5/8: 27.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	1.9	5.0	5.7	6.1	5.7	13.8	12.3	36.4	261

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

JANUARY

AREA 0013 OKHOTSK SEA NE
55.1N 159.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.5	1.6	.1	.3	.3	1.0	2.1	.0	.0	6.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.0	
	TOT %	.3	.5	1.6	.1	.3	.3	1.4	2.8	.0	.0	7.3	
1/2<1	PCP	.3	.7	.6	.4	.3	.0	1.6	2.1	.0	.0	6.3	
	NO PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	1.0	.6	.4	.3	.0	1.6	2.1	.0	.0	6.6	
1<2	PCP	1.2	.9	.3	.3	.0	1.0	.3	1.4	.0	.0	5.6	
	NO PCP	.0	.1	.3	.0	.0	.0	.3	.3	.0	.0	1.0	
	TOT %	1.2	1.0	.6	.3	.0	1.0	.7	1.7	.0	.0	6.6	
2<5	PCP	1.9	.9	.6	.0	.0	.5	1.4	2.7	.0	.0	7.3	
	NO PCP	.3	1.1	.6	.4	.5	.8	1.9	1.9	.0	.3	8.0	
	TOT %	1.6	2.0	1.2	.4	.5	1.3	3.3	4.6	.0	.3	15.3	
5<10	PCP	.3	.1	.0	.0	.0	.3	.6	.4	.0	.0	1.7	
	NO PCP	4.9	6.0	1.1	1.6	.3	.1	3.6	6.4	.0	1.4	25.3	
	TOT %	5.1	6.1	1.1	1.6	.3	.4	4.2	6.9	.0	1.4	27.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	5.2	14.9	4.0	2.8	.3	.4	5.1	4.3	.0	.0	37.2	
	TOT %	5.2	14.9	4.0	2.8	.3	.4	5.1	4.3	.0	.0	37.2	
TOT OBS													268
TOT PCT		14.0	25.5	9.1	5.6	1.8	3.6	16.2	22.4	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	.7	
	11-21	.0	.3	1.0	.0	.0	.4	.4	.4	.0	.0	2.6	
	22+	.4	.1	.3	.0	.0	.0	1.1	2.2	.0	.0	4.0	
	TOT %	.4	.3	1.6	.0	.0	.4	1.5	2.9	.0	.0	7.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.0	.0	.0	.4	.7	.0	.0	1.5	
	11-21	.0	1.1	.0	.4	.4	.0	.6	1.6	.0	.0	4.0	
	22+	.3	.0	.0	.0	.0	.0	.6	.2	.0	.0	1.1	
	TOT %	.3	1.1	.4	.4	.4	.0	1.6	2.5	.0	.0	6.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.3	.4	.0	.7	.4	.0	.0	.0	1.8	
	11-21	1.0	.3	.4	.0	.0	.0	.4	1.8	.0	.0	4.0	
	22+	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.3	1.0	.6	.4	.0	.7	.7	1.8	.0	.0	6.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.4	.1	.3	.0	.3	.5	1.0	1.2	.0	.0	3.6	
	11-21	1.0	.8	.3	.5	.3	.9	1.8	1.4	.0	.0	5.7	
	22+	.3	1.2	.7	.0	.0	.0	.6	2.3	.0	.0	5.1	
	TOT %	1.6	2.1	1.3	.5	.5	1.4	3.3	4.8	.0	.4	16.1	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	1.6	1.4	.3	.5	.4	.4	.4	1.5	.0	.0	6.2	
	11-21	1.3	2.7	.4	.7	.0	.1	1.9	4.2	.0	.0	11.3	
	22+	.2	2.3	.3	.0	.0	.0	1.7	1.2	.0	.0	7.7	
	TOT %	3.0	6.4	.9	1.2	.4	.5	4.0	6.8	.0	.7	25.9	
10+	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	1.6	6.4	1.7	.7	.4	.4	1.4	2.0	.0	.0	14.6	
	11-21	3.2	7.0	1.7	1.5	.0	.1	3.7	1.7	.0	.0	19.0	
	22+	.6	1.6	.4	.7	.0	.0	.0	.4	.0	.0	3.6	
	TOT %	5.3	15.3	3.8	2.9	.4	.5	5.1	6.1	.0	.0	37.6	
TOT OBS													274
TOT PCT		14.1	26.5	8.7	5.3	1.6	3.4	16.4	23.0	.0	1.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974AREA 0015 OKHOTSK SEA NE
55.1N 159.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	2.7	.0	2.7	5.5	16.4	31.5	5.5	6.2	2.7	.0	75.3	24.7	73
06009	5.8	.0	1.4	1.4	24.6	31.9	8.7	1.4	.0	.0	75.4	24.6	69
12015	15.0	.0	.0	1.7	20.0	21.7	.0	1.7	3.3	.0	63.3	36.7	60
18021	24.2	.0	.0	.0	24.2	15.2	6.1	.0	6.1	.0	75.8	24.2	33
TOT	23	0	3	6	49	63	12	8	6	0	170	65	235
PCT	9.8	.0	1.3	2.6	20.9	26.8	5.1	3.4	2.6	.0	72.3	27.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	8.4	5.3	5.3	10.5	20.0	50.5	95
06009	5.6	7.8	5.6	18.9	25.6	36.7	90
12015	6.6	11.8	5.3	14.5	31.6	30.3	76
18021	5.7	5.7	9.4	22.6	39.6	17.0	53
TOT	21	24	19	50	87	113	314
PCT	6.7	7.6	6.1	15.9	27.7	36.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	2.8	15.5	33.8	42.3	28.9	71
06009	6.1	13.6	42.4	36.4	21.2	66
12015	15.3	25.4	37.3	28.8	33.9	59
18021	24.2	36.4	57.6	21.2	21.2	33
TOT	23	47	93	78	58	229
PCT	10.0	20.5	40.6	34.1	25.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	.0	.0	.0	7.1	1	7.1
25/29	.0	.0	.0	.0	.0	.0	.0	7.1	1	7.1
20/24	.0	.0	.0	.0	.0	.0	.0	28.6	4	28.6
15/19	.0	.0	.0	.0	.0	.0	7.1	35.7	6	42.9
10/14	.0	.0	.0	.0	.0	.0	.0	14.3	2	14.3
TOTAL	0	0	0	0	0	0	1	13	14	100.0
PCT	.0	.0	.0	.0	.0	.0	7.1	92.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	5.4	.0	.0	.0	.0	.0	.0	1.8	.0	.0
25/29	.0	.0	5.4	1.8	.0	.0	.0	.0	.0	.0
20/24	.0	.0	5.4	8.9	.0	.0	7.1	.0	.0	7.1
15/19	.0	21.4	.0	.0	.0	.0	.0	21.4	.0	.0
10/14	5.4	1.8	.0	.0	.0	.0	.0	7.1	.0	.0
TOTAL	10.7	23.2	10.7	10.7	.0	.0	7.1	30.4	.0	7.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	34	32	32	19	1	-5	-5	17.8	91
06009	48	47	35	18	6	-4	-4	19.5	85
12015	37	36	34	17	2	-2	-2	16.7	72
18021	36	35	32	18	0	-6	-6	17.6	53
TOT	48	36	32	18	1	-4	-6	18.0	301

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.0	.0	.0	.0	100.0	96	2
06009	.0	.0	.0	.0	.0	100.0	94	1
12015	.0	.0	.0	.0	20.0	80.0	96	5
18021	.0	.0	.0	.0	.0	100.0	96	6
TOT	0	0	0	0	1	13	96	14

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

JANUARY

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	2	.0	.9
3	.0	.0	.0	.0	.0	.0	.0	.4	.9	.0	3	.0	1.3
2	.0	.0	.0	.0	.0	.0	.0	.4	1.3	.0	4	.0	1.7
1	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	6	.0	2.6
0	.0	.0	.0	.0	.0	.0	.4	3.4	.4	.0	10	.0	4.3
-1	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	5	.0	2.1
-2	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	2	.0	.9
-3	.0	.0	.0	.0	.0	.0	3.0	2.6	.0	.0	13	.0	5.6
-4	.0	.0	.0	.0	.0	.0	2.6	1.3	.0	.0	9	.9	3.0
-5	.0	.0	.0	.0	.0	.4	1.3	.4	.4	.0	6	.0	2.6
-6	.0	.0	.0	.0	.0	.0	.9	.4	.0	.0	3	.0	1.3
-7/-8	.0	.0	.0	.0	.0	1.7	2.1	.4	.0	.0	10	.0	4.3
-9/-10	.0	.0	.0	.0	.9	3.4	.4	.0	.0	.0	12	.0	5.1
-11/-13	.0	.0	.0	.4	3.8	2.6	.0	.4	.0	.0	17	.0	7.3
-14/-16	.0	.0	.4	2.6	8.1	.0	.9	.0	.0	.0	28	.4	11.5
-17/-19	.0	.0	3.8	7.3	1.3	1.3	.0	.0	.0	.0	32	.4	13.2
-20/-22	.0	1.3	5.1	2.6	.0	.0	.4	.0	.0	.0	22	.9	8.5
-23/-25	.4	3.8	4.3	.0	.0	.0	.0	.0	.0	.0	20	.0	8.5
-26/-30	2.6	4.3	.9	.0	.0	.0	.0	.0	.0	.0	18	2.6	5.1
<-30	3.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	4.3
TOTAL	13	24	34	30	33	22	28	37	9	2	234	12	222
PCT	6.4	10.3	14.5	12.8	14.1	9.4	12.0	13.8	3.8	.9	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.5	2.1	.0	.0	.0	.0	2.7
1-2	.0	1.5	2.9	.0	.0	.0	4.4	.0	4.4	3.5	.0	.0	.0	7.8
3-4	.0	.4	1.7	.4	.0	.0	2.5	.0	.5	2.9	.5	.0	.0	4.0
5-6	.0	1.1	.5	.5	.5	.0	2.7	.0	.5	2.1	.7	.5	.0	3.9
7	.0	.0	.9	1.5	.0	.0	2.4	.0	.1	1.2	1.2	.5	.0	3.1
8-9	.0	.0	.0	.9	1.6	.0	2.5	.0	.0	2.3	1.3	.0	.0	3.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.1	.0	.0	2.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	6.1	3.3	2.1	.0	15.4	.5	7.7	13.6	5.9	1.1	.0	28.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.2	.5	.0	.0	.0	3.9	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.5	.5	.0	.0	.0	2.0	.0	.1	.5	.0	.0	.0	.7
3-4	.0	.0	1.6	.5	.0	.0	2.1	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.5	.4	.0	.0	.9	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.4	.0	.5	.0	.0	.9	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	3.6	1.9	.0	.0	10.6	.0	.7	2.7	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1974

JANUARY
TABLE 18 (CONT)AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.0	.5	.0	.0	.0	.5	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.5	.0	.0	.0	1.5	.0	2.3	1.2	.0	.0	.0	3.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.1	.5	.0	.0	.0	2.7	.0	1.6	.5	.0	.0	.0	2.1	
1-2	.0	.4	3.2	.0	.0	.0	3.6	.0	2.3	2.5	.0	.0	.0	4.8	
3-4	.0	.4	.9	.5	.0	.0	1.9	.0	1.3	1.9	.7	.0	.0	3.9	
5-6	.0	.0	1.1	1.5	.4	.0	2.9	.0	.0	4.3	.7	.1	.0	5.1	
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	1.1	1.7	.5	.0	3.3	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.1	.0	.0	1.6	
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.9	5.7	4.5	.9	.0	14.1	.0	5.2	10.8	5.2	.7	.0	21.8	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	12.8	1.6	.0	.0	.0	16.0	
1-2	.0	10.1	14.4	.0	.0	.0	24.5	
3-4	.0	3.7	9.6	2.7	.0	.0	16.0	
5-6	.0	1.6	10.1	3.7	1.6	.0	17.0	
7	.0	.5	3.7	6.4	1.1	.0	11.7	
8-9	.0	.0	2.7	3.7	1.6	.0	8.0	
10-11	.0	.0	2.1	2.1	.0	.0	4.2	
12	.0	.0	.0	1.6	.5	.0	2.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	28.7	44.1	20.7	4.8	.0	100.0	188

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	10.0	6.8	8.6	4.5	4.5	.5	.9	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	5
6-7	.0	.9	4.1	6.8	1.8	4.1	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
8-9	.0	.0	.0	.5	.9	.9	.0	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
10-11	.0	1.8	.5	.5	.0	.9	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
12-13	.0	.0	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	8.1	2.7	1.8	3.6	7.7	3.2	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
TOTAL	22	34	30	46	34	30	11	7	4	3	0	0	0	0	0	0	0	0	0	221	5
PCT	10.0	15.4	13.6	20.8	15.4	13.6	5.0	3.2	1.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

FEBRUARY

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA
N	.0	.0	.0	.0	30.6	.0	.0	30.6	1.5	.0	1.1	.0	.0	.0	66.8
NE	1.5	.0	.0	.0	24.4	.0	.0	27.9	4.5	.0	6.3	.0	1.5	1.5	58.4
E	3.9	.0	.0	.0	19.6	.0	.0	23.5	3.9	.0	.0	.0	.0	.0	72.5
SE	.0	.0	.0	.0	23.1	.0	.0	23.1	4.4	.0	4.4	.0	.0	.0	68.1
S	.0	.0	.0	.0	40.0	.0	.0	40.0	5.5	.0	.0	.0	.0	5.5	49.1
SW	.0	.0	.0	.0	40.3	.0	.0	40.3	1.4	.0	8.3	.0	.0	1.4	48.6
W	.0	.0	.0	.0	36.8	.0	.0	36.8	.0	.0	13.6	.0	.0	.0	49.6
NW	.0	.0	.0	.0	31.4	.0	.0	31.4	.0	.0	10.7	.0	.0	.0	57.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	18.8	.0	.0	18.8	.0	.0	.0	.0	.0	.0	81.3
TOT PCT	.7	.0	.0	.0	29.2	.0	.0	29.9	2.4	.0	5.2	.0	.3	.7	61.5
TOT OBS:	291														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	.0	.0	.0	.0	26.6	.0	.0	26.6	3.2	.0	7.4	.0	2.1	.0	60.6
0600	1.2	.0	.0	.0	23.5	.0	.0	24.7	1.2	.0	10.6	.0	.0	1.2	62.4
1200	2.6	.0	.0	.0	37.2	.0	.0	39.7	3.8	.0	3.8	.0	.0	1.3	51.3
1800	.0	.0	.0	.0	29.3	.0	.0	29.3	.0	.0	.0	.0	.0	1.3	69.3
TOT PCT	.9	.0	.0	.0	28.9	.0	.0	29.8	2.1	.0	5.7	.0	.6	.9	60.8
TOT OBS:	332														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.6	5.4	9.9	6.5	.9	.3		23.5	18.0		20.1	50.0	20.0	31.3	22.2	66.7	24.1	53.1
NE	.1	4.3	11.7	6.5	.9	.4		23.9	19.0		27.6	25.0	14.6	18.8	29.4	.0	25.9	21.9
E	.3	2.1	2.6	2.0	1.1	.0		9.1	20.0		6.5	.0	14.6	12.5	4.8	.0	4.4	25.0
SE	.4	3.3	3.2	.7	.4	.0		7.9	13.1		6.5	.0	12.3	.0	11.7	.0	3.9	.0
S	.0	2.7	1.6	.0	.0	.3		4.6	13.2		4.5	18.8	2.7	.0	4.0	.0	7.9	.0
SW	.0	2.4	3.5	.4	.0	.4		6.7	15.1		5.8	6.3	5.4	6.3	7.3	23.3	8.3	.0
W	.7	4.1	3.5	1.7	.0	.0		10.0	12.9		14.0	.0	8.1	31.3	10.1	.0	6.6	.0
NW	.0	3.2	4.5	1.9	.0	.0		9.6	14.6		5.8	.0	16.2	.0	5.6	.0	15.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0		9.1	.0	6.2	.0	4.8	.0	3.5	.0
TOT OBS	22	78	115	56	9	4	284		15.7		77	4	65	8	62	3	57	8
TOT PCT	7.7	27.5	40.9	19.7	3.2	1.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 9A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21	
N	2.2	8.9	9.2	2.5	.8		23.5	18.0	21.6	21.2	24.2	27.7	
NE	2.6	6.4	12.1	2.1	.6		23.9	19.0	27.5	15.1	28.1	25.4	
E	1.0	2.5	2.6	2.1	.0		8.1	20.0	6.2	14.4	4.6	6.9	
SE	3.0	2.5	1.8	.7	.0		7.9	13.1	6.2	11.0	11.2	3.5	
S	.8	2.9	.6	.0	.3		4.6	13.2	5.2	2.4	3.8	6.9	
SW	1.1	4.4	.8	.0	.4		6.7	15.1	5.9	5.5	8.5	7.3	
W	2.6	4.8	2.4	.4	.0		10.0	12.9	13.3	10.6	9.6	5.8	
NW	1.2	5.4	2.3	.7	.0		9.6	14.6	5.6	14.4	5.4	13.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.6						5.6	.0	8.6	5.5	4.6	3.1	
TOT OBS	37	107	90	24	6	284		15.7	81	73	65	65	
TOT PCT	20.1	37.7	31.7	8.5	2.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

FEBRUARY

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	8.6	1.2	28.4	35.8	23.5	2.5	.0	15.2	100.0	81
06009	5.5	2.7	16.4	47.9	20.5	5.5	1.4	17.2	100.0	73
12015	4.6	1.5	29.2	43.1	15.4	3.1	3.1	16.1	100.0	65
18021	3.1	3.1	36.9	35.4	18.5	1.5	1.5	14.4	100.0	65
TOT	16	6	78	115	56	9	4	15.7		284
PCT	5.6	2.1	27.5	40.5	19.7	3.2	1.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	C-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.6	3.6	7.8	7.2		5.0
NE	6.8	.6	7.3	8.6		5.1
E	1.1	.3	2.2	4.4		6.2
SE	.4	.4	2.8	2.8		6.2
S	.8	1.1	.3	2.7		5.9
SW	1.2	.3	1.9	1.8		5.4
W	2.4	.8	4.9	2.5		4.9
NW	2.1	1.3	3.6	3.7		5.3
VAR	.0	.0	.0	.0		.0
CALM	2.2	1.3	.4	1.3		3.5
TOT OBS	53	22	70	78	223	5.2
TOT PCT	23.8	9.9	31.4	35.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.6	.0	.0	.0	1.8	8.5	1.6	.3	.0	.0	11.4	
NE	3.8	.0	.4	.0	1.3	5.7	1.7	.1	2.2	.0	8.0	
E	.4	.0	.4	.0	1.8	2.2	.8	.0	.0	.0	2.4	
SE	.4	.0	.0	.9	1.9	2.4	.0	.0	.0	.0	.9	
S	.4	.0	.0	.3	.7	1.6	.0	.0	.0	.0	1.9	
SW	.0	.0	.0	.6	1.6	.7	.0	.0	.4	.0	2.0	
W	.0	.0	.0	.0	3.9	2.6	.4	.4	.0	.0	3.1	
NW	1.8	.0	.9	.0	1.3	2.4	.9	.0	.0	.0	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.4	.0	.0	.9	.4	.0	.0	.0	3.6	
TOT OBS	19	0	5	4	32	60	13	2	6	0	82	223
TOT PCT	8.5	.0	2.2	1.8	14.3	26.9	5.8	.9	2.7	.0	36.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)				OR			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.2	2.0	2.4	2.4	2.4	2.4	2.4
>5000	2.0	2.4	3.2	3.6	3.6	3.6	3.6	3.6
>3500	5.6	7.2	9.2	9.6	9.6	9.6	9.6	9.6
>2000	16.1	22.5	34.5	36.1	36.5	36.5	36.5	36.5
>1000	18.5	28.1	43.0	46.6	48.2	48.6	49.8	49.8
>600	18.5	28.1	43.8	47.8	49.8	51.0	52.2	52.2
>300	18.5	28.9	45.4	49.8	52.6	53.8	55.0	55.0
>150	18.5	28.9	45.4	49.8	52.6	53.8	55.0	55.0
>0	18.5	29.7	49.0	53.4	58.6	61.8	63.9	64.2
TOTAL	46	74	122	138	146	154	159	160

TOTAL NUMBER OF OBS: 249

PCT FREQ NH <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
14.9	2.8	4.5	5.5	4.5	5.5	12.1	9.3	32.9	8.3	289

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

FEBRUARY

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	1.7	.0	.0	.0	1.0	.9	.4	.0	.0	4.7	
	NO PCP	.0	.7	.0	.0	.3	.9	.8	.3	.0	.0	2.4	
	TOT %	.7	2.4	.0	.0	.3	1.3	1.8	.8	.0	.0	7.1	
1/2<1	PCP	.7	.7	.7	1.0	.3	.7	.0	.3	.0	.0	4.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.3	
	TOT %	.7	.7	.7	1.0	.3	.7	.3	.4	.0	.0	4.7	
1<2	PCP	1.2	1.5	1.0	.0	.3	.0	1.9	.8	.0	.3	7.1	
	NO PCP	.3	.8	.3	.3	.0	.0	.3	.0	.0	.0	2.4	
	TOT %	1.7	2.4	1.4	.3	.3	.0	2.3	.8	.0	.3	9.5	
2<5	PCP	4.3	3.1	.3	.8	1.2	.8	1.4	1.4	.0	.3	13.6	
	NO PCP	.9	3.6	.3	1.4	.3	.3	.3	1.5	.0	.3	9.2	
	TOT %	4.9	6.7	.8	2.2	1.4	1.1	1.6	2.9	.0	.7	22.7	
5<10	PCP	.3	.1	.3	.0	.0	.0	.0	.0	.0	.3	1.0	
	NO PCP	2.3	4.7	1.2	3.1	.6	1.5	1.9	.8	.0	.0	16.3	
	TOT %	2.8	4.7	1.5	3.1	.6	1.5	1.9	.8	.0	.3	17.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	11.8	6.7	4.6	1.0	1.7	1.5	3.1	4.3	.0	4.1	38.6	
	TOT %	11.8	6.7	4.6	1.0	1.7	1.5	3.1	4.3	.0	4.1	38.6	
TOT OBS													295
TOT PCT													
		22.7	23.6	9.0	7.7	4.7	6.1	10.9	9.9	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	4-10	.4	.4	.0	.0	.0	.2	.5	.0	.0	.0	1.4	
	11-21	.0	.4	.0	.0	.0	.7	.0	.4	.0	.0	1.4	
	22+	.4	1.4	.0	.0	.3	.4	1.0	.4	.0	.0	3.9	
	TOT %	.7	2.1	.0	.0	.3	1.3	1.9	.8	.0	.0	7.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	1.1	
	11-21	.4	.4	.4	.0	.4	.4	.0	.0	.0	.0	1.8	
	22+	.4	.4	.4	.0	.0	.4	.0	.4	.0	.0	1.8	
	TOT %	.7	.7	.7	1.1	.4	.7	.0	.4	.0	.0	4.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.4	.4	.0	.4	.0	.7	.4	.0	.0	2.1	
	11-21	.6	1.2	.4	.0	.0	.0	1.3	.4	.0	.0	3.9	
	22+	1.2	.6	.4	.4	.0	.4	.0	.4	.0	.0	2.9	
	TOT %	1.8	2.1	1.1	.4	.4	.0	2.4	.8	.0	.4	9.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.6	1.5	.0	.8	1.3	.8	.4	.4	.0	.0	5.7	
	11-21	3.3	3.1	.4	1.1	.0	.4	1.3	1.5	.0	.0	11.1	
	22+	1.6	2.2	.0	.4	.0	.0	.0	.8	.0	.0	5.0	
	TOT %	5.5	6.9	.4	2.2	1.3	1.2	1.7	2.7	.0	.7	22.5	
5<10	0-3	.0	.0	.3	.1	.0	.0	.4	.0	.0	.4	1.1	
	4-10	.6	.8	.4	1.1	.4	.4	1.3	.4	.0	.0	5.4	
	11-21	.9	2.4	.6	1.8	.3	1.2	.4	.4	.0	.0	7.9	
	22+	1.4	1.8	.4	.4	.0	.0	.0	.0	.0	.0	3.9	
	TOT %	2.9	5.0	1.6	3.3	.6	1.6	2.0	.8	.0	.4	18.2	
10+	0-3	.6	.1	.0	.4	.0	.0	.0	.0	.0	4.3	5.4	
	4-10	3.8	1.3	1.4	.4	.8	1.0	1.3	2.1	.0	.0	12.1	
	11-21	4.6	4.5	1.0	.4	1.0	.6	.5	1.4	.0	.0	13.9	
	22+	2.9	1.2	2.1	.0	.0	.0	.4	.4	.0	.0	6.8	
	TOT %	11.9	7.1	4.5	1.1	1.8	1.6	2.2	3.8	.0	4.3	38.2	
TOT OBS													280
TOT PCT													
		23.6	23.9	8.2	8.0	4.6	6.4	10.2	9.3	.0	5.7	100.0	

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PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.7	.0	6.7	2.7	18.7	28.0	8.0	2.7	2.7	.0	72.0	28.0	75
06009	8.5	.0	1.4	1.4	18.3	21.1	1.4	1.4	2.8	.0	56.3	43.7	71
12015	15.8	.0	.0	3.5	3.5	31.6	5.3	.0	3.5	.0	63.2	36.8	57
18021	14.0	.0	2.0	2.0	8.0	26.0	10.0	.0	.0	.0	62.0	38.0	50
TOT	24	0	7	6	33	67	15	3	6	0	161	92	253
PCT	9.5	.0	2.8	2.4	13.0	26.5	5.9	1.2	2.4	.0	63.6	36.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.2	6.3	10.5	24.2	14.7	40.0	95
06009	9.1	8.0	5.7	17.0	17.0	43.2	88
12015	10.1	6.3	13.9	21.5	15.2	32.9	79
18021	4.0	1.3	9.3	26.7	29.3	29.3	75
TOT	23	19	33	75	63	124	337
PCT	6.8	5.6	9.8	22.3	18.7	36.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.7	13.3	38.7	34.7	26.7	75
06009	8.7	18.0	37.7	24.6	37.7	69
12015	15.8	22.8	42.1	26.3	31.6	57
18021	12.5	16.7	39.6	25.0	33.4	48
TOT	23	44	98	70	81	249
PCT	9.2	17.7	39.4	28.1	32.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	.0	.0	3.1	1	3.1
30/34	.0	.0	.0	.0	3.1	.0	3.1	3.1	3	9.4
25/29	.0	.0	.0	.0	.0	3.1	6.3	6.3	5	15.6
20/24	.0	3.1	3.1	9.4	.0	.0	3.1	9.4	9	28.1
15/19	.0	9.4	12.5	6.3	3.1	9.4	.0	3.1	14	43.8
TOTAL	0	4	5	5	2	4	4	8	32	100.0
PCT	.0	12.5	15.6	15.6	6.3	12.5	12.5	25.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.0	.0	.0	.0	.0	.0	2.3	.8	.0	.0
30/34	2.3	.8	3.1	.0	.0	.0	.0	.0	.0	3.1
25/29	9.4	.0	.0	.0	2.3	1.6	2.3	.0	.0	.0
20/24	7.8	10.9	.0	3.9	2.3	3.1	.0	.0	.0	.0
15/19	28.9	8.6	3.1	.0	2.3	.8	.0	.0	.0	.0
TOTAL	48.4	20.3	6.3	3.9	7.0	5.5	4.7	.8	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	39	34	31	15	-5	-15	-15	14.1	91
06009	40	36	32	18	-4	-11	-11	16.8	79
12015	32	31	30	16	-5	-10	-10	13.9	70
18021	30	29	28	16	-4	-8	-8	14.6	73
TOT	40	34	30	16	-4	-11	-15	14.9	313

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	62.5	12.5	.0	.0	25.0	60	8
06009	.0	55.6	.0	11.1	22.2	11.1	64	9
12015	.0	16.7	16.7	33.3	.0	33.3	73	6
18021	.0	33.3	.0	11.1	22.2	33.3	74	9
TOT	0	14	2	4	4	8	67	32

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

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AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	MO FOG
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
2	.6	.0	.0	.0	.0	.0	.0	.0	1.0	.0	2	.0	1.0
1	.0	.0	.0	.0	.0	.0	.0	1.0	.5	.0	3	.0	1.5
0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.5	3	.5	1.0
-1	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	3	.0	1.5
-2	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	3	.0	1.5
-3	.0	.0	.0	.0	.0	.0	2.9	1.0	.0	.0	8	1.0	2.9
-4	.0	.0	.0	.0	.0	.0	1.0	1.5	.0	.0	5	.0	2.5
-5	.0	.0	.0	.0	.0	.5	2.0	1.0	.0	.0	7	.0	3.4
-6	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	.0	.0	.0	.0	.0	4.4	1.5	.0	.0	.0	12	.0	5.9
-9/-10	.0	.0	.0	.0	1.5	5.4	1.5	.0	.0	.0	17	.5	7.8
-11/-13	.0	.0	.0	2.0	8.3	3.9	.0	.0	.0	.0	29	.0	14.2
-14/-16	.0	.0	.5	4.9	3.9	2.0	.0	.0	.0	.0	23	.5	10.8
-17/-19	.0	.0	2.5	4.9	2.9	.0	.0	.0	.0	.0	21	1.5	8.8
-20/-22	.0	.5	5.9	3.4	1.0	.0	.0	.0	.0	.0	22	.5	10.3
-23/-25	.0	1.5	2.5	1.0	.0	.0	.0	.0	.0	.0	10	1.0	3.9
-26/-30	2.0	6.4	.5	.0	.0	.0	.0	.0	.0	.0	18	.0	8.8
<-30	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	2.0	5.9
TOTAL	20	17	24	33	36	33	19	17	3	2	204	15	189
PCT	9.8	8.3	11.8	16.2	17.6	16.2	9.3	8.3	1.5	1.0	100.0	7.4	92.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.0	.0	.0	.0	3.2	.0	4.0	.0	.0	.0	.0	4.0
1-2	.0	.7	1.4	.0	.0	.0	2.2	.0	.7	4.3	.0	.0	.0	5.0
3-4	.0	.0	5.8	2.0	.0	.0	7.7	.0	.0	3.6	1.6	.0	.0	5.2
5-6	.0	.0	1.6	1.6	.0	.0	3.2	.0	.0	3.4	.4	.0	.0	3.8
7	.0	.7	.0	1.8	.0	.0	2.5	.0	.0	.0	2.0	.0	.0	2.0
8-9	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.7	.9	.7	.0	2.3
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	3.1	.0	.0	3.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	1.4
17-19	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	8.8	7.9	.0	.0	21.4	.0	4.7	12.1	8.6	1.4	.0	26.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.9	1.4	.0	.0	.0	.0	2.3
1-2	.0	2.2	.0	.0	.0	.0	2.2	.0	1.4	1.4	.0	.0	.0	2.9
3-4	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.7	.0	.0	.7	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.7	.5	.0	.0	1.3	.0	.0	.0	.0	.7	.0	.7
8-9	.0	.0	.0	.0	.7	.0	.7	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	2.7	2.0	.7	.0	8.1	.9	2.9	5.0	.0	.7	.0	9.5

PERIOD: (OVER-ALL) 1963-1974

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AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	2.5	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.9	1.4	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.4	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
20-22	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.2	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	.7	.0	.0	.5	4.5	.0	2.2	2.9	.0	.0	.9	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	2.5	.0	.0	.0	.0	3.2	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	1.3	1.3	.0	.0	.0	2.5	.0	1.4	3.1	.0	.0	.0	4.5	
3-4	.0	.0	.0	.7	.0	.0	.7	.0	.7	.2	.0	.0	.0	.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.0	.0	1.6	
7	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.2	.0	.0	.2	
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	3.8	1.3	3.4	.0	.0	9.2	.0	3.8	4.0	1.1	.0	.0	8.8	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	15.8	.0	.0	.0	.0	23.7	
1-2	.0	9.4	12.9	.0	.0	.0	22.3	
3-4	.0	1.4	13.7	4.3	.0	.0	19.4	
5-6	.0	.0	7.2	3.6	.0	.0	10.8	
7	.0	.7	.7	5.8	.7	.0	7.9	
8-9	.0	.0	2.2	2.9	1.4	.0	6.5	
10-11	.0	.0	.7	4.3	.0	.0	5.0	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.7	.7	.0	1.4	
17-19	.0	.0	.0	.7	.0	.7	1.4	
20-22	.0	.0	.0	.0	.0	.7	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	27.3	37.4	23.0	2.9	1.4	100.0	139

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.7	6.3	13.8	6.9	5.7	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	4
6-7	.0	.6	2.3	3.4	2.9	4.6	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
8-9	.0	.0	1.1	.6	.6	1.1	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
10-11	.0	.6	.0	.6	.0	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	4	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
>13	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2	15
INDEX	14.9	5.7	3.4	2.3	4.0	.6	1.7	.0	.0	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	60	3
TOTAL	36	23	36	24	29	13	10	1	3	2	2	1	0	0	0	0	0	0	0	174	5
PCT	20.7	13.2	20.7	13.8	13.2	7.5	5.7	.6	1.7	1.1	1.1	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

MARCH

AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	UTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.2	.0	.0	.0	18.8	.0	.0	20.1	.0	.0	2.5	.0	.0	.0	77.5
NE	.0	.0	.0	.0	11.8	.0	.0	11.8	8.2	.0	2.1	.0	2.1	.0	75.9
E	.0	.0	.0	.0	23.2	.0	.0	23.2	.0	.0	7.1	.0	.0	.0	69.6
SE	.0	.0	.0	.0	44.4	.0	.0	44.4	.0	.0	.0	.0	.0	.0	55.6
S	.0	.0	.0	.0	26.3	.0	.0	26.3	5.3	.0	2.6	.0	.0	.0	65.8
SW	.0	.0	2.7	.0	35.6	.0	.0	38.3	4.0	.0	.0	.0	.0	.0	57.7
W	.0	.0	.0	.0	20.7	.0	.0	20.7	6.9	.0	.0	.0	4.6	.0	67.8
NW	.0	.0	.0	.0	19.7	.0	.0	19.7	2.5	.0	2.5	.0	.0	.0	75.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	90.9
TOT PCT	.3	.0	.3	.0	20.9	.0	.0	21.5	3.1	.0	2.5	.0	.6	.0	72.3
TOT OBS:	325														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.0	.8	.0	21.7	.0	.0	22.5	2.5	.0	4.2	.0	.0	.0	70.8
0600	.0	.0	.0	.0	13.2	.0	.0	13.2	2.6	.0	1.3	.0	.0	.0	82.9
1200	.0	.0	.0	.0	24.8	.0	.0	24.8	1.0	.0	2.0	.0	.0	.0	72.3
1800	1.4	.0	.0	.0	21.9	.0	.0	23.3	5.5	.0	1.4	.0	2.7	2.7	64.4
TOT PCT	.3	.0	.3	.0	20.8	.0	.0	21.4	2.7	.0	2.4	.0	.5	.5	72.4
TOT OBS:	370														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	9.5	11.4	3.5	.6	.0		25.4	15.0		27.0	33.3	26.9	.0	21.7	.0	25.8	.0
NE	.0	5.2	8.0	1.3	.3	.0		14.8	15.1		15.3	.0	13.3	.0	15.8	.0	15.0	.0
E	.0	3.1	3.9	1.5	.0	.0		8.5	14.8		7.8	.0	9.1	.0	8.9	.0	8.8	.0
SE	.0	.8	1.1	.5	.1	.1		2.5	17.7		3.3	.0	1.5	.0	2.4	.0	2.7	.0
S	.0	3.3	5.2	2.4	.9	.2		11.9	17.2		11.3	.0	12.9	.0	16.1	.0	7.3	.0
SW	.3	4.6	4.5	2.2	.0	.0		11.6	14.2		10.5	66.7	6.4	.0	10.4	.0	17.7	.0
W	.3	1.9	3.1	1.7	.0	.0		6.9	15.9		4.8	.0	4.9	.0	8.6	.0	10.4	.0
NW	.0	3.0	6.9	1.5	.3	.0		11.7	15.3		11.3	.0	18.9	.0	11.3	.0	6.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.6							6.6	.0		9.0	.0	6.1	.0	4.8	.0	6.2	.0
TOT OBS	24	100	140	46	7	1	318		14.3		100	3	66	0	84	0	65	0
TOT PCT	7.5	31.4	44.0	14.5	2.2	.3		100.0			100.0	100.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	2.4	14.4	6.5	2.0	.0		25.4	15.0		27.2	26.9	21.7	25.8	
NE	1.6	8.0	4.1	1.1	.0		14.8	15.1		14.8	13.3	15.8	15.0	
E	.6	5.0	2.6	.3	.0		8.5	14.8		7.5	9.1	8.9	8.8	
SE	.4	1.1	.4	.1	.2		2.5	17.7		3.2	1.5	2.4	2.7	
S	1.0	7.2	1.9	1.4	.5		11.9	17.2		10.9	12.9	16.1	7.3	
SW	2.1	6.1	2.3	1.1	.0		11.6	14.2		12.1	6.4	10.4	17.7	
W	1.1	2.6	2.3	.9	.0		6.9	15.9		4.6	4.9	8.6	10.4	
NW	.5	8.5	2.0	.5	.3		11.7	15.3		10.9	18.9	11.3	6.2	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	6.6						6.6	.0		8.7	6.1	4.8	6.2	
TOT OBS	52	168	70	25	3	318		14.3		103	66	84	65	
TOT PCT	16.4	52.8	22.0	7.9	.9		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

MARCH

AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	8.7	.0	35.9	42.7	10.7	1.9	.0	13.4	100.0	103
06009	6.1	.0	27.3	47.0	16.7	3.0	.0	15.2	100.0	86
12015	4.8	.0	26.2	48.8	16.7	2.4	1.2	15.8	100.0	84
18021	6.2	4.6	35.4	36.9	15.4	1.5	.0	13.1	100.0	65
TOT	21	3	100	140	46	7	1	14.3		318
PCT	6.6	.9	31.4	44.0	14.5	2.2	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER	MEAN CLOUD COVER
N	3.1	4.0	5.8	8.4		5.9
NE	5.3	1.7	5.2	3.8		4.6
E	2.4	.8	2.9	3.6		3.2
SE	.1	.0	.0	2.9		7.7
S	1.0	.7	3.7	5.0		6.3
SW	.9	1.2	2.6	6.5		6.4
W	.4	1.5	1.6	2.7		5.9
NW	1.3	2.3	5.9	4.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	5.0	2.1	.8	.8		2.4
TOT OBS	47	34	68	90	239	5.4
TOT PCT	19.7	14.2	28.5	37.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	2.4	.0	.0	1.3	.4	6.7	.8	.4	1.3	.4	7.5	
NE	.5	.0	.0	.4	.4	5.5	.4	.4	.0	.4	7.5	
E	2.7	.0	.0	.0	.4	1.3	1.3	.0	.0	.0	4.1	
SE	.2	.0	.1	.8	.9	.8	.0	.0	.0	.0	.1	
S	.6	.0	.7	.4	2.3	2.7	1.2	.0	.4	.0	2.1	
SW	1.3	.0	.4	.8	.9	4.5	.1	.0	.0	.5	2.6	
W	1.4	.0	.0	.0	.0	2.6	.0	.0	.0	.3	1.9	
NW	.9	.0	.4	.0	2.9	3.5	.4	.0	.0	.4	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.0	.0	.4	.0	.0	.0	.0	7.5	
TOT OBS	26	0	4	9	20	67	10	2	4	5	92	239
TOT PCT	10.9	.0	1.7	3.8	8.4	28.0	4.2	.8	1.7	2.1	38.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.2	2.5	3.3	3.6	3.6	3.6	3.6	3.6
= OR >5000	2.9	3.3	4.0	4.3	4.3	4.3	4.3	4.3
= OR >3500	5.4	8.0	9.4	9.8	9.8	9.8	9.8	9.8
= OR >2000	19.6	29.7	34.8	37.3	38.4	38.4	38.4	38.4
= OR >1000	22.8	34.4	40.2	44.6	45.7	46.0	46.4	46.4
= OR >600	23.2	35.9	42.0	47.1	48.9	49.3	49.6	49.6
= OR >300	23.2	35.9	42.8	48.6	50.4	50.7	51.1	51.1
= OR >150	23.2	35.9	42.8	48.6	50.4	50.7	51.1	51.1
= OR >0	23.2	36.6	46.4	53.6	57.6	62.0	63.0	63.0
TOTAL	64	101	128	148	159	171	174	174

TOTAL NUMBER OF OBS: 276

PCT FREQ NH <5/8: 37.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.4	2.6	5.8	3.5	8.0	4.8	8.3	11.5	30.4	312

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

MARCH

AREA 0015 UKHOTSK SEA NE
95.1N 154.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.0	.9	.4	.5	.8	.5	.0	.0	.0	4.0	
	NO PCP	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.9	
	TOT %	.9	.0	1.2	.4	.5	.8	.8	.0	.0	.3	4.9	
1/2<1	PCP	2.4	.3	.3	.0	.0	.2	.5	.1	.0	.0	3.7	
	NO PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	
	TOT %	2.4	.3	.3	.0	.0	.2	.7	.1	.0	.0	4.0	
1<2	PCP	.9	.7	.5	.2	1.2	1.5	.5	.7	.0	.0	5.8	
	NO PCP	.0	.3	.3	.0	.0	.0	.0	.3	.0	.0	.9	
	TOT %	.9	1.0	.8	.2	1.2	1.5	.5	1.0	.0	.0	6.7	
2<5	PCP	1.2	.5	.2	.4	1.4	1.0	.2	1.3	.0	.0	6.1	
	NO PCP	1.5	.6	.3	.1	1.4	.5	.2	.3	.0	.0	4.9	
	TOT %	2.7	1.1	.5	.5	2.8	1.5	.5	1.6	.0	.0	11.0	
5<10	PCP	.0	.0	.0	.0	.0	.9	.0	.0	.0	.3	1.2	
	NO PCP	4.8	2.5	2.7	.3	3.1	2.1	1.5	2.7	.0	1.2	20.9	
	TOT %	4.8	2.5	2.7	.3	3.1	3.1	1.5	2.7	.0	1.5	22.1	
10+	PCP	.0	.3	.0	.3	.0	.0	.0	.3	.0	.0	.9	
	NO PCP	13.6	9.8	3.0	1.2	4.1	4.4	3.1	6.4	.0	4.9	50.3	
	TOT %	13.6	10.1	3.0	1.5	4.1	4.4	3.1	6.7	.0	4.9	51.2	
TOT OBS													326
TOT PCT		24.8	13.0	8.6	2.8	11.7	11.4	7.0	12.0	.0	6.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.6	
	4-10	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.6	
	11-21	.3	.0	.6	.3	.0	.1	.2	.0	.0	.0	1.6	
	22+	.6	.0	.0	.1	.6	.4	.2	.0	.0	.0	1.9	
	TOT %	1.0	.0	1.0	.4	.6	.8	.8	.0	.0	.3	4.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	1.0	.2	.0	.0	.0	.2	.5	.1	.0	.0	1.9	
	22+	1.1	.2	.3	.0	.0	.1	.2	.0	.0	.0	1.9	
	TOT %	2.5	.3	.3	.0	.0	.2	.7	.1	.0	.0	4.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.0	.3	.6	.3	.0	.0	.0	1.6	
	11-21	.6	.4	.6	.1	.0	.6	.0	.3	.0	.0	2.5	
	22+	.0	.3	.0	.1	.9	.3	.2	.7	.0	.0	2.5	
	TOT %	.6	.7	.9	.2	1.2	1.6	.6	1.0	.0	.0	6.7	
2<5	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.6	.0	.3	.0	.2	.7	.0	.0	.0	.0	1.9	
	11-21	1.2	1.0	.0	.0	1.6	.3	.0	1.6	.0	.0	5.7	
	22+	.6	.1	.2	.5	.8	.4	.5	.1	.0	.0	3.2	
	TOT %	2.8	1.1	.6	.5	2.6	1.4	.5	1.7	.0	.0	11.1	
5<10	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.3	1.6	
	4-10	2.1	1.3	1.0	.0	.8	1.2	.2	.8	.0	.0	7.3	
	11-21	2.3	.9	1.2	.3	1.5	1.0	1.0	2.0	.0	.0	10.2	
	22+	.6	.1	.6	.0	1.0	.7	.2	.0	.0	.0	3.2	
	TOT %	4.9	2.2	2.8	.3	3.3	3.2	1.5	2.8	.0	1.3	22.2	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	
	4-10	6.3	3.9	1.3	.8	2.0	1.8	1.3	2.2	.0	.0	19.7	
	11-21	6.1	3.6	1.5	.4	1.9	2.3	1.3	3.0	.0	.0	22.2	
	22+	1.3	1.0	.3	.0	.3	.3	.2	1.0	.0	.0	4.4	
	TOT %	13.7	10.5	3.1	1.2	4.2	4.4	2.9	6.3	.0	4.8	51.1	
TOT OBS													315
TOT PCT		23.4	14.8	8.6	2.5	11.8	11.7	7.0	11.8	.0	6.3	100.0	

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1959-1974AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	4.3	.0	2.2	4.3	7.6	31.5	3.3	1.1	2.2	5.4	62.0	38.0	92
06009	4.8	.0	.0	1.6	14.5	32.3	9.7	1.6	1.6	.0	66.1	33.9	62
12015	15.3	.0	2.8	4.2	4.2	26.4	4.2	.0	1.4	1.4	59.7	40.3	72
18021	26.8	.0	.0	1.8	5.4	21.4	5.4	.0	.0	.0	60.7	39.3	56
TOT	33	0	4	9	22	80	15	2	4	6	175	107	282
PCT	11.7	.0	1.4	3.2	7.8	28.4	5.3	.7	1.4	2.1	62.1	37.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	4.2	3.3	7.5	12.5	16.7	55.8	120
06009	2.6	1.3	2.6	7.8	23.4	62.3	77
12015	5.0	4.0	8.0	18.0	24.0	41.0	100
18021	9.3	8.0	6.7	10.7	22.7	42.7	75
TOT	19	15	24	47	79	188	372
PCT	5.1	4.0	6.5	12.6	21.2	50.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
(GMT)	<50YD	<1	<5	AND 5+		
00003	4.3	8.7	29.3	33.7	37.0	92
06009	4.9	4.9	13.1	54.1	32.8	61
12015	16.2	20.6	36.8	27.9	35.3	68
18021	27.3	36.4	41.8	21.8	36.4	55
TOT	33	45	83	95	98	276
PCT	12.0	16.3	30.1	34.4	35.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	.0	.0	.0	100.0	.0	.0	2	100.0
TOTAL	0	0	0	0	0	2	0	0	2	100.0
PCT	.0	.0	.0	.0	.0	100.0	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
25/29	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
TOTAL	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	45	37	34	23	9	-1	-1	22.0	113
06009	43	42	36	25	10	3	3	23.6	75
12015	39	35	32	20	6	-2	-2	20.3	97
18021	43	42	34	21	2	-4	-4	20.2	71
TOT	45	37	34	22	5	-1	-4	21.5	356

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.0	.0	100.0	.0	.0	79	1
06009	.0	.0	.0	100.0	.0	.0	70	1
12015								
18021	0	0	0	2	0	0	75	2
TOT								

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	1	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.4	.0	.0	4	.0	1.6
6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	1	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	3	.0	1.2
4	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	.0	.0	3	.0	1.2
3	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
2	.0	.0	.0	.0	.0	.0	.0	2.4	.4	.0	.0	.0	7	.4	2.4
1	.0	.0	.0	.0	.0	.0	.0	1.2	.8	.0	.0	.0	5	.0	2.0
0	.0	.0	.0	.0	.0	.0	.0	2.0	.4	.0	.0	.0	6	.0	2.4
-1	.0	.0	.0	.0	.0	.0	.4	.8	.4	.0	.0	.0	4	.0	1.6
-2	.0	.0	.0	.0	.0	.0	3.6	2.0	.0	.0	.0	.0	14	.0	5.6
-3	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	8	.0	3.2
-4	.0	.0	.0	.0	.0	.4	3.6	.8	.0	.0	.0	.0	12	.0	4.8
-5	.0	.0	.0	.0	.0	2.4	5.2	.8	.0	.0	.0	.0	21	.0	8.4
-6	.0	.0	.0	.0	.0	1.2	2.8	.4	.0	.0	.0	.0	11	.4	4.0
-7/-8	.0	.0	.0	.0	.0	6.8	4.4	.0	.0	.0	.0	.0	28	.0	11.2
-9/-10	.0	.0	.0	.0	3.2	6.8	.8	.0	.0	.0	.0	.0	27	.0	10.8
-11/-13	.0	.0	.0	.4	6.0	3.2	.8	.0	.0	.0	.0	.0	26	.4	10.0
-14/-16	.0	.0	.0	6.4	3.2	1.6	.0	.0	.0	.0	.0	.0	28	.0	11.2
-17/-19	.0	.0	2.0	1.2	.0	.4	.0	.0	.0	.0	.0	.0	9	.0	3.6
-20/-22	.0	.4	3.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	11	.4	4.0
-23/-25	.0	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.4	2.8
-26/-30	2.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	3.2
<-30	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.2
TOTAL	10	8	16	21	31	57	62	11	4	1			249	5	244
PCT	4.0	3.2	6.4	8.4	12.4	22.9	24.9	10.8	4.4	1.6	.4	.4	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.0	.0	.0	.0	.0	3.0	.0	2.2	.2	.0	.0	.0	2.4
1-2	.0	2.0	2.4	.0	.0	.0	4.4	.0	.7	.9	.0	.0	.0	1.7
3-4	.0	3.0	.7	.0	.0	.0	3.7	.0	.7	3.7	.0	.0	.0	4.4
5-6	.0	1.3	1.3	.7	.0	.0	3.3	.0	.2	3.7	.0	.0	.0	3.9
7	.0	.0	2.2	.0	.7	.0	3.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.7	.6	.0	.0	1.3	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.3	7.4	1.3	.7	.0	18.7	.0	3.9	6.5	.9	.7	.0	14.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.7	.6	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.0	.7	.0	.0	.0	.7	.0	.7	.7	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	1.3	.7	.0	.0	2.8	.0	.9	.9	1.1	.2	.2	3.3

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0015 OKHOTSK SEA NE
55.1N 156.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.0	.7	.0	.0	.0		2.8	.0	5.7	.7	.0	.0	.0		6.5
1-2	.0	1.9	.0	.0	.0	.0		1.9	.0	1.1	1.7	.0	.0	.0		2.8
3-4	.0	.7	1.3	.7	.0	.0		2.8	.0	.7	1.3	.2	.0	.0		2.2
5-6	.0	.0	.0	2.2	.0	.0		2.2	.0	.0	.4	.0	.0	.0		.4
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.6	.0	.7	.0		1.3	.0	.0	.9	.9	.0	.0		1.9
12	.0	.0	.7	.0	.0	.0		.7	.0	.0	.7	.7	.0	.0		1.5
13-16	.0	.0	.0	.0	1.3	.0		1.3	.0	.0	.0	.9	.0	.0		.9
17-19	.0	.0	.0	1.1	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	4.6	3.3	4.1	2.0	.6		14.6	.0	7.6	5.7	2.8	.0	.0		16.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.7	.0	.0	.0	.0		1.7	.0	2.2	.7	.0	.0	.0		3.0	
1-2	.0	1.5	1.9	.0	.0	.0		3.3	.0	.9	2.0	.0	.0	.0		3.0	
3-4	.0	.0	1.1	.6	.0	.0		1.7	.0	.0	3.7	.0	.0	.0		3.7	
5-6	.0	.0	1.1	.0	.0	.0		1.1	.0	.0	.2	.0	.0	.0		.2	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.7	.0	.0	.0		.7	.0	.0	.7	.0	.0	.0		.7	
10-11	.0	.0	.6	.6	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.7	.0		.7	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.1	5.4	1.7	.0	.0		10.2	.0	3.1	7.4	.0	.7	.0		11.3	91.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.9	17.8	3.0	.0	.0	.0	29.6	
1-2	.0	8.9	10.4	.0	.0	.0	19.3	
3-4	.0	5.2	11.9	1.5	.0	.0	18.5	
5-6	.0	1.5	6.7	3.0	.0	.0	11.1	
7	.0	.0	2.2	.7	.7	.0	3.7	
8-9	.0	.0	2.2	1.5	.0	.0	3.7	
10-11	.0	.0	2.2	2.2	.7	.0	5.2	
12	.0	.0	1.5	.7	.0	.0	2.2	
13-16	.0	.0	.0	1.5	1.5	.0	3.0	
17-19	.0	.0	.0	1.5	.7	.0	2.2	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.7	.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.9	33.3	40.0	12.6	4.4	.7	100.0	135

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	12.1	12.7	6.4	1.3	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	3
6-7	.0	.0	3.8	.6	1.9	1.3	3.2	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
8-9	.0	.0	.0	.6	.6	1.9	.6	.6	1.3	1.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	14	13
10-11	.0	1.3	.0	.0	.0	.0	.0	.6	.6	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	7	13
12-13	.0	.0	1.3	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	5	10
>13	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	24.2	3.2	2.5	2.5	1.9	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	1
TOTAL	40	28	32	16	9	7	8	4	8	4	4	1	0	0	0	0	0	0	0	197	5
PCT	29.5	16.6	20.4	10.2	5.7	4.5	5.1	2.5	3.8	2.5	2.5	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.7	.0	.0	.0	10.1	.3	.0	10.8	3.4	.0	3.5	.6	.0	.0	81.7
NE	.9	.1	.0	.0	10.4	.0	.0	10.9	3.6	.0	2.1	.9	.4	.4	81.7
E	8.9	3.4	2.2	.0	29.5	2.2	.0	44.0	2.5	.0	4.3	.9	.0	.0	48.3
SE	11.0	.9	3.9	.2	29.9	1.1	.7	41.6	3.9	.0	5.8	.2	.0	1.4	47.1
S	4.5	.7	3.6	.2	17.5	.9	.0	26.0	3.1	.0	10.8	.8	.0	.5	58.9
SW	3.0	.1	.0	.1	12.5	.4	.0	16.0	7.0	.0	5.5	.1	.0	.1	71.2
W	1.0	.4	.0	.4	16.1	1.0	.0	18.3	5.6	.0	2.6	.4	.0	.0	73.1
NW	.7	.0	.0	.0	19.7	1.4	.0	21.1	4.5	.0	1.3	.0	.0	.0	73.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	10.9	.0	.0	10.9	.0	.0	13.0	.0	.0	.0	76.1
TOT PCT	3.1	.5	1.2	.1	16.1	.7	.1	20.6	4.0	.0	5.4	.5	.1	.3	69.2
TOT OBS:	1695														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.4	.6	.9	.0	12.9	.6	.0	16.3	4.3	.0	6.9	.4	.0	.4	71.6
06009	3.5	.0	1.9	.0	13.6	.7	.0	19.1	3.8	.0	3.5	.9	.2	.5	72.0
12015	2.5	.5	1.6	.2	21.6	.9	.2	25.7	2.3	.0	3.4	.7	.0	.2	67.7
18021	3.7	.7	.5	.2	16.4	.5	.0	21.0	5.6	.0	7.8	.0	.0	.0	65.5
TOT PCT	3.0	.5	1.2	.1	16.1	.7	.1	20.5	4.0	.0	5.4	.5	.1	.3	69.3
TOT OBS:	1735														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	6.2	7.1	2.3	.1	.0		17.2	13.1		14.6	14.7	16.8	16.0	20.8	17.9	18.2	13.4
NE	1.1	4.2	6.8	3.4	.2	.0		15.7	15.1		19.0	14.9	17.7	12.5	15.6	10.5	16.9	13.4
E	.7	1.9	1.7	.5	.3	.0		5.1	13.1		5.8	6.8	3.1	3.5	4.1	3.3	7.2	6.9
SE	.4	2.7	3.4	1.8	.5	.0		8.7	16.3		8.0	8.2	8.5	11.8	8.9	12.3	7.2	5.3
S	.8	5.6	8.8	6.3	1.0	.2		22.7	17.5		21.0	24.7	23.8	28.0	19.1	23.4	21.4	24.4
SW	.4	3.1	4.2	2.6	.1	.0		10.4	15.4		12.6	12.4	9.9	9.4	7.8	11.8	9.1	11.8
W	1.0	3.3	4.2	1.4	.9	.0		10.0	13.0		9.7	7.0	8.7	5.3	13.0	12.6	10.4	12.0
NW	1.0	3.7	2.6	.8	.1	.0		8.1	11.2		6.6	8.3	9.0	10.4	8.4	6.9	6.6	10.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		2.6	3.0	.4	3.3	2.2	1.3	2.9	2.4
TOT OBS	151	517	651	323	37	3	1682		14.5		267	168	264	152	269	159	276	127
TOT PCT	9.0	30.7	38.7	19.2	2.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	4.1	7.7	4.4	1.1	.0			17.2	13.1		14.7	17.8	19.7	16.7				
NE	2.4	7.4	4.5	1.4	.0			15.7	15.1		17.4	15.6	13.7	15.6				
E	1.3	1.8	1.2	.5	.0			5.1	13.1		6.2	3.2	3.8	7.1				
SE	1.6	3.0	3.0	1.0	.1			8.7	16.3		8.0	9.7	10.2	6.6				
S	3.4	7.8	7.8	3.3	.4			22.7	17.5		22.4	25.3	20.7	22.3				
SW	1.5	4.4	3.9	.5	.0			10.4	15.4		12.5	9.7	9.3	10.0				
W	2.7	4.0	3.0	.3	.0			10.0	13.0		8.7	7.5	12.9	10.9				
NW	2.5	4.0	1.3	.3	.0			8.1	11.2		7.3	9.5	7.8	7.8				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	2.2							2.2	.0		2.8	1.4	1.9	2.7				
TOT OBS	367	674	490	144	7	1682			14.5		435	416	428	403				
TOT PCT	21.8	40.1	29.1	8.6	.4			100.0			100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974

APRIL

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.8	6.4	32.2	37.2	18.4	2.5	.5	14.3	100.0	435
06009	1.4	6.5	30.3	41.6	18.3	1.7	.2	14.6	100.0	416
12015	1.9	6.1	30.1	39.3	20.1	2.6	.0	14.8	100.0	428
18021	2.7	8.2	30.3	36.7	20.1	2.0	.0	14.2	100.0	403
TOT	37	114	517	651	323	37	.5	14.5		1682
PCT	2.2	6.8	30.7	38.7	19.2	2.2	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER
N	4.5	1.8	4.7	5.8	5.1
NE	3.8	1.2	4.5	5.6	5.2
E	.5	.2	.9	3.4	6.9
SE	.5	.6	1.0	6.5	7.1
S	2.0	.8	4.1	14.9	6.8
SW	1.6	.7	2.7	5.7	6.2
W	3.0	1.0	3.1	4.5	5.3
NW	1.9	.4	1.8	3.5	5.6
VAR	.0	.0	.0	.0	.0
CALM	.8	.2	.7	1.2	5.3
TOT OBS	274	102	346	759	1477
TOT PCT	18.6	6.9	23.4	51.1	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.1	.0	.2	1.6	2.8	2.8	.6	.1	.0	.1	7.7	
1.0	.1	.6	1.0	2.5	2.1	.9	.2	.1	.1	6.5	
1.9	.1	.1	.3	.9	.4	.2	.1	.0	.0	1.0	
3.2	.0	.2	1.1	1.6	.8	.3	*	*	.0	1.4	
5.7	.1	1.4	5.6	2.5	2.2	.4	.2	.1	.0	3.4	
1.4	.0	.3	3.1	1.6	1.3	.2	.1	.0	.0	2.7	
1.3	.0	.3	2.5	1.3	1.1	.1	.1	.0	.1	5.0	
1.0	.0	.3	1.1	1.1	.9	.2	.1	.0	*	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.4	.0	.1	.3	.5	.3	.0	.0	.0	.0	1.4	
250	4	51	248	217	175	42	12	3	4	473	1477
16.9	.3	3.5	16.7	14.7	11.8	2.8	.8	.2	.3	32.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	1.9	3.5	4.0	4.0	4.1	4.1	4.1	4.1
= OR >2000	6.0	11.3	14.4	15.5	15.8	15.9	15.9	15.9
= OR >1000	11.3	21.2	27.3	29.4	30.0	30.4	30.4	30.4
= OR >600	12.8	30.1	41.4	44.5	45.8	47.1	47.3	47.3
= OR >300	12.8	30.8	43.7	47.6	48.9	50.3	50.5	50.5
= OR >150	13.0	31.1	43.9	47.8	49.2	50.6	50.8	50.8
= OR > 0	13.0	31.3	45.4	52.5	57.3	63.1	67.6	67.9
TOTAL	192	462	670	775	845	930	997	1002

TOTAL NUMBER OF OBS: 1475

PCT FREQ NM <5/8: 32.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.0	6.1	7.2	5.5	3.8	4.5	7.0	10.8	30.2	15.9	1577

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974

APRIL

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.4	1.1	1.4	1.7	.3	.4	.5	.0	.0	6.1	
	NO PCP	.4	.3	.2	.5	2.2	.5	.3	.1	.0	.3	4.8	
	TOT %	.8	.8	1.3	1.9	3.9	.8	.7	.6	.0	.3	10.9	
1/2<1	PCP	.2	.1	.3	1.0	1.6	.2	.4	.3	.0	.0	4.1	
	NO PCP	.2	.1	.0	.2	.4	.1	.0	.0	.0	.0	1.0	
	TOT %	.4	.3	.3	1.2	2.0	.3	.4	.3	.0	.0	5.1	
1<2	PCP	.7	.7	.6	.7	1.4	.3	.4	.5	.0	.1	5.4	
	NO PCP	.2	.3	.0	.1	.5	.1	.2	.2	.0	.0	1.7	
	TOT %	.9	1.0	.7	.8	1.8	.4	.7	.7	.0	.1	7.1	
2<5	PCP	.6	.5	.1	.4	1.2	.6	.4	.3	.0	.2	4.3	
	NO PCP	1.2	1.5	.3	.5	3.6	1.5	1.0	1.0	.0	.5	10.9	
	TOT %	1.8	2.0	.5	.8	4.8	2.1	1.4	1.3	.0	.5	15.2	
5<10	PCP	.3	.1	.0	.1	.1	.2	.4	.2	.0	.0	1.3	
	NO PCP	5.5	3.8	.9	1.4	5.2	2.8	3.6	2.1	.0	.5	25.9	
	TOT %	5.8	3.9	.9	1.4	5.3	3.1	4.0	2.3	.0	.5	27.2	
10+	PCP	.1	.0	.0	.0	.0	.1	.2	.1	.0	.0	.4	
	NO PCP	7.3	6.8	1.2	2.2	4.8	3.7	3.6	3.1	.0	1.3	34.0	
	TOT %	7.4	6.8	1.2	2.2	4.8	3.7	3.8	3.2	.0	1.3	34.4	
TOT OBS		1692											
TOT PCT		17.0	14.7	4.8	8.4	22.6	10.4	11.0	8.3	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.1	.1	.0	.0	.1	.0	.2	.6	
	4-10	.3	.3	.2	.2	.9	.3	.2	.2	.0	.0	2.5	
	11-21	.3	.4	.4	1.1	1.5	.3	.4	.1	.0	.0	4.4	
	22+	.1	.2	.6	.6	1.4	.1	.0	.3	.0	.0	3.4	
	TOT %	.8	.8	1.3	2.0	3.9	.7	.6	.6	.0	.2	10.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.1	.0	.1	.3	.1	.1	.0	.0	.0	.9	
	11-21	.2	.1	.2	.4	.8	.0	.0	.3	.0	.0	1.9	
	22+	.0	.1	.1	.7	1.0	.2	.2	.0	.0	.0	3.3	
	TOT %	.4	.3	.3	1.2	2.0	.3	.4	.3	.0	.0	5.2	
1<2	0-3	.1	.1	.1	.0	.0	.1	.1	.1	.0	.1	.6	
	4-10	.3	.3	.1	.2	.3	.1	.1	.5	.0	.0	1.8	
	11-21	.7	.3	.5	.5	.6	.1	.2	.3	.0	.0	3.4	
	22+	.0	.5	.1	.2	1.2	.2	.3	.1	.0	.0	2.5	
	TOT %	1.2	1.2	.8	.9	2.1	.5	.7	1.0	.0	.1	8.3	
2<5	0-3	.1	.1	.1	.0	.2	.1	.2	.2	.0	.4	1.4	
	4-10	.4	.7	.2	.3	.7	.6	.5	.6	.0	.0	4.1	
	11-21	.9	1.0	.2	.6	2.2	1.2	.8	.5	.0	.0	7.4	
	22+	.5	.4	.0	.2	2.1	.6	.1	.2	.0	.0	4.0	
	TOT %	2.0	2.2	.5	1.2	5.1	2.4	1.6	1.5	.0	.4	16.8	
5<10	0-3	.3	.2	.1	.0	.2	.1	.2	.1	.0	.4	1.7	
	4-10	1.7	1.0	.7	.9	1.5	1.2	1.2	1.1	.0	.0	9.2	
	11-21	2.6	2.0	.1	.3	2.0	1.1	1.4	.5	.0	.0	10.0	
	22+	1.1	.8	.0	.3	1.4	.6	.5	.2	.0	.0	4.8	
	TOT %	5.6	4.0	1.0	1.4	5.2	2.9	3.3	2.0	.0	.4	25.7	
10+	0-3	1.0	.7	.4	.2	.4	.1	.4	.5	.0	1.1	4.9	
	4-10	2.9	2.0	.7	1.2	2.1	.9	1.4	1.4	.0	.0	12.7	
	11-21	2.4	2.8	.2	.6	1.7	1.5	1.3	.8	.0	.0	11.2	
	22+	.6	1.3	.0	.3	.5	1.1	.4	.2	.0	.0	4.2	
	TOT %	6.8	6.8	1.3	2.3	4.6	3.6	3.5	2.9	.0	1.1	33.0	
TOT OBS		1617											
TOT PCT		16.7	15.2	5.1	8.9	23.0	10.5	10.2	8.2	.0	2.2	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	12.9	.2	3.2	17.0	15.5	12.1	3.4	.7	.2	.7	66.0	34.0	412
06009	13.7	.3	4.5	15.8	14.5	11.3	3.4	2.1	.5	.3	66.5	33.5	379
12015	23.2	.3	2.2	11.6	13.7	11.9	2.2	.0	.0	.0	65.0	35.0	371
18021	17.7	.3	3.6	21.9	14.4	11.9	2.2	.3	.0	.0	72.3	27.7	361
TOT	255	4	51	252	222	180	43	12	3	4	1026	497	1523
PCT	16.7	.3	3.3	16.5	14.6	11.8	2.8	.8	.2	.3	67.4	32.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	10.4	4.7	7.2	13.7	26.4	37.6	473
06009	9.8	4.3	6.6	14.2	26.9	38.1	438
12015	10.5	5.3	8.9	19.2	27.4	28.7	449
18021	12.3	5.9	8.5	18.2	26.0	29.1	423
TOT	191	90	139	290	476	597	1783
PCT	10.7	5.0	7.8	16.3	26.7	33.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
(GMT)	<300D	<1	<5	AND 5+		
00003	13.2	20.1	43.8	23.4	32.8	402
06009	13.7	21.4	44.0	24.7	31.4	373
12015	24.1	29.2	51.0	18.1	30.9	353
18021	18.4	25.4	57.6	18.2	24.2	347
TOT	253	352	720	313	442	1475
PCT	17.2	23.9	48.8	21.2	30.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
40/44	.0	.0	.0	.0	.0	.4	.6	.2	6	1.2
35/39	.0	.0	.0	.4	1.8	2.5	4.5	7.6	86	16.8
30/34	.0	.0	.0	.4	.4	2.3	15.7	41.1	306	59.9
25/29	.0	.0	.0	.0	.6	1.2	1.8	18.2	111	21.7
20/24	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	4	14	34	115	344	511	100.0
PCT	.0	.0	.0	.8	2.7	6.7	22.5	67.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.2	.0	.2	.0	.3	.0	.1	.0	.0	.2
1.7	3.2	1.0	2.5	4.7	1.3	.6	.6	.0	1.2
9.4	5.4	1.5	6.7	19.3	6.5	5.5	3.6	.0	2.0
2.6	.7	.0	1.7	4.3	3.0	4.7	2.9	.0	.8
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.2	10.3	2.7	11.0	28.6	10.8	11.1	7.3	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	50	45	41	32	24	19	7	32.5	475
06009	45	41	39	32	25	19	7	32.1	437
12015	39	36	36	30	23	17	7	29.8	462
18021	39	37	36	30	21	16	7	29.9	431
TOT	50	41	37	32	23	18	7	31.1	1805

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	1.5	8.8	9.5	21.9	58.4	89	137
06009	.0	.9	.0	6.0	31.9	61.2	90	116
12015	.0	.7	.7	4.2	19.7	74.6	93	142
18021	.0	.0	.8	6.6	17.2	75.4	93	122
TOT	0	4	14	34	116	349	91	517

APRIL

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1938-1974

TABLE 17

AREA 0015 OKHOTSK SEA NE
55.3N 154.6EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	0° 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	H FOG	HO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	6	.0	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	7	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.0	1.2	.7	.0	.0	20	.0	1.9
6	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	7	.0	.7
5	.0	.0	.0	.0	.0	.0	.6	1.7	.1	.0	.0	25	.1	2.3
4	.0	.0	.0	.0	.0	.2	3.4	1.5	.1	.0	.0	55	.2	5.0
3	.0	.0	.0	.0	.0	1.1	1.9	.3	.0	.0	.0	35	.2	3.1
2	.0	.0	.0	.0	.0	2.7	6.9	.8	.0	.0	.0	110	.1	10.3
1	.0	.0	.0	.0	.0	4.5	3.7	.2	.0	.0	.0	89	.3	8.1
0	.0	.0	.0	.0	2.1	11.5	3.7	.2	.0	.0	.0	185	1.4	16.1
-1	.0	.0	.0	.0	1.6	7.8	1.4	.1	.0	.0	.0	115	.5	10.4
-2	.0	.0	.0	.0	4.8	8.1	.9	.0	.0	.0	.0	146	.7	13.2
-3	.0	.0	.0	.0	3.1	2.7	.3	.0	.0	.0	.0	65	.4	5.8
-4	.0	.0	.0	.0	4.5	1.7	.4	.0	.0	.0	.0	70	.3	6.3
-5	.0	.0	.0	.0	3.6	.6	.2	.1	.0	.0	.0	53	.4	4.6
-6	.0	.0	.0	.4	.9	.3	.0	.0	.0	.0	.0	16	.3	1.2
-7/-8	.0	.0	.1	.5	.9	.1	.0	.0	.0	.0	.0	17	.0	1.6
-9/-10	.0	.0	.3	.4	.2	.1	.2	.0	.0	.0	.0	12	.0	1.1
-11/-13	.0	.0	.7	.3	.1	.0	.1	.0	.0	.0	.0	12	.0	1.1
-14/-16	.0	.0	.4	.2	.1	.1	.0	.0	.0	.0	.0	8	.0	.8
-20/-22	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-23/-25	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	1	13	24	440	71	16	5	1	1057	50	1007		
PCT	.2	.1	1.4	2.3	21.9	41.6	23.7	6.7	1.5	.5	.1	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.8	.1	.0	.0	.0	2.6	.6	1.0	.0	.0	.0	.0	1.6
1-2	.3	2.6	2.3	.0	.0	.0	5.1	.2	1.5	2.4	.0	.0	.0	4.1
3-4	.1	.9	1.4	.2	.0	.0	2.6	.*	.3	1.9	.4	.0	.0	2.6
5-6	.0	.3	2.4	.1	.0	.0	2.8	.0	.4	.7	.5	.0	.0	1.5
7	.0	.0	.8	.1	.0	.0	.9	.0	.0	.2	.5	.4	.0	1.1
8-9	.0	.0	.4	.2	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.2	.2	.2	.0	.5	.0	.0	.0	.2	.0	.0	.2
12	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.7	7.6	.8	.2	.0	15.4	.8	3.2	5.3	1.7	.5	.0	11.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.2	.0	.0	.0	.0	1.3	.2	.5	.0	.0	.0	.0	.7
1-2	.1	.9	.2	.0	.0	.0	1.3	.1	1.2	.5	.0	.0	.0	1.7
3-4	.0	.6	.5	.1	.0	.0	1.2	.0	1.2	2.2	.1	.0	.0	3.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.9	.7	.5	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	.6	.1	.0	.0	3.8	.3	3.2	4.3	2.0	.8	.0	10.6

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0015 DKHOTS SEA NE
55.3N 154.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.5	.0	.0	.0	1.4	.2	.9	.2	.0	.0	.0	1.2
1-2	.1	2.6	2.0	.0	.0	.0	4.8	.4	1.1	1.0	.0	.0	.0	2.5
3-6	.0	1.9	4.3	1.4	.0	.0	7.6	.0	.9	1.8	.2	.0	.0	3.0
5-6	.0	.3	1.7	3.2	.2	.0	5.6	.0	.0	.4	.2	.0	.0	1.2
7	.0	.0	.8	1.8	.0	.0	2.6	.0	.0	1.0	.6	.0	.0	1.6
8-9	.0	.0	.2	1.0	.7	.0	1.8	.0	.0	.3	.6	.0	.0	.9
10-11	.0	.0	.0	1.1	.3	.0	1.6	.0	.0	.2	.8	.0	.0	.9
12	.0	.0	.0	.2	.0	.0	1.2	.0	.0	.2	.2	.0	.0	.4
13-16	.0	.0	.0	.3	.4	.0	1.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.2	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.8	9.9	9.0	2.1	.5	27.6	.5	3.4	4.7	3.2	.0	.0	11.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.3	.0	.0	.0	.0	.5	.2	1.9	.2	.0	.0	.0	2.2	
1-2	.5	.7	.8	.0	.0	.0	1.9	.1	1.4	1.7	.0	.0	.0	3.2	
3-6	.0	.1	1.3	.0	.0	.0	1.4	.0	.2	.9	.0	.0	.0	1.0	
5-6	.0	.5	.9	.7	.0	.0	2.1	.0	.1	.3	.0	.0	.0	.4	
7	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	
8-9	.0	.2	.8	.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.7	.7	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	2.0	4.6	1.5	.0	.0	8.7	.2	3.6	3.1	.1	.0	.0	7.0	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	8.3	1.1	.0	.0	.0	14.6	
1-2	1.8	12.1	10.8	.0	.0	.0	24.7	
3-6	.7	6.1	14.2	2.3	.0	.0	23.4	
5-6	.0	2.3	7.2	5.8	.7	.0	16.2	
7	.0	.2	3.4	4.1	.4	.0	8.1	
8-9	.0	.2	1.6	2.2	.7	.0	4.7	
10-11	.0	.0	1.1	2.9	.0	.0	4.0	
12	.0	.4	.2	.4	.0	.0	.9	
13-16	.0	.0	.0	.3	.4	.0	1.2	
17-19	.0	.0	.0	.0	.0	.2	.2	
20-22	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.2	.4	.0	.5	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	29.7	40.2	18.4	3.4	.5	100.0	555

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.5	20.8	16.1	5.2	4.2	1.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	396	3
6-7	.1	2.0	3.7	4.4	2.4	3.4	3.5	.6	.4	.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	130	7
8-9	.0	.1	1.3	1.8	.8	.4	1.3	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.0	.6	.8	.8	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.1	.1	.1	.7	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	10	9
>13	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	14
INDET	7.4	1.0	.8	.8	.3	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	2
TOTAL	106	189	160	95	82	44	42	10	9	3	3	3	1	0	0	0	0	0	0	707	4
PCT	15.0	23.9	22.6	13.4	8.8	6.2	5.9	1.4	1.3	.4	.4	.4	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1937-1974

MAY

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.5	.0	1.3	.2	3.4	.4	.0	6.6	1.6	.0	14.9	1.2	1.0	.0	74.7
NE	2.6	.0	1.2	.1	5.1	1.5	.3	9.9	1.0	.0	10.1	.1	.3	.0	78.5
E	16.3	.0	5.8	.6	7.0	.6	.0	30.3	1.4	.0	10.8	.0	2.4	.0	55.2
SE	14.1	.0	10.5	.1	8.1	.0	.0	30.1	3.7	.0	23.7	.0	.6	.0	41.9
S	6.1	.0	4.7	.3	5.6	.0	.0	15.5	3.4	.0	22.2	.5	1.1	.0	57.3
SW	1.7	.0	1.3	.1	6.6	.0	.0	8.6	3.5	.0	19.7	1.0	1.7	.0	65.5
W	2.1	.0	1.6	.5	6.1	1.0	.0	9.6	3.4	.0	17.3	1.7	1.9	.0	66.1
NW	3.3	.0	1.8	.0	7.6	.7	.0	11.4	3.7	.0	17.2	.1	.2	.0	67.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	.0	1.2	.0	.0	.0	.0	3.5	.0	.0	34.9	.0	.0	.0	61.6
TOT PCT	4.4	.0	2.9	.2	5.4	.5	*	12.4	2.5	.0	17.5	.6	1.0	.0	66.0
TOT OBS:	2570														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.5	.0	3.3	.1	4.5	.4	.0	11.1	1.2	.0	20.0	.3	.6	.0	66.9
06009	4.2	.0	1.6	.4	5.7	.6	.0	11.2	2.1	.0	15.4	1.3	1.4	.0	68.6
12015	5.2	.0	3.6	.0	7.0	.3	.0	14.9	3.1	.0	15.4	.5	1.0	.0	65.1
18021	4.8	.0	3.2	.2	4.5	.7	.2	12.6	4.1	.0	19.7	.3	.8	.0	62.4
TOT PCT	4.4	.0	2.9	.2	5.4	.5	*	12.4	2.6	.0	17.6	.6	1.0	.0	65.9
TOT OBS:	2615														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	3.1	7.9	10.8	1.3	.1	*		23.2	11.5		22.2	15.3	26.6	26.2	23.2	23.0	24.9	20.2
NE	2.1	6.3	5.0	1.1	.1	.0		14.6	10.7		15.4	9.8	14.7	11.7	17.9	14.9	16.5	10.4
E	1.0	2.1	1.4	.1	*	.0		4.8	9.2		5.1	5.7	1.8	5.9	4.4	7.6	4.2	8.1
SE	.6	2.9	2.4	.6	.3	.0		6.7	12.4		7.8	9.0	7.0	5.9	5.9	5.1	3.8	11.0
S	1.5	6.8	8.6	3.6	.3	.0		20.8	13.9		23.5	24.0	19.5	17.5	19.7	19.4	20.5	21.6
SW	1.0	3.8	2.5	.8	*	.0		8.0	10.6		6.8	11.2	7.2	9.3	8.6	9.3	7.1	6.7
W	1.4	3.7	2.3	.4	.0	.0		7.8	9.0		8.7	8.4	7.4	6.3	5.5	9.0	8.2	10.5
NW	1.4	5.8	3.5	.4	.0	.0		11.1	9.9		7.1	13.8	12.4	15.2	12.3	9.8	10.4	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0		3.5	2.9	3.3	1.9	2.4	2.0	4.3	2.8
TOT OBS	388	1012	940	216	21	1	2578		11.0		429	245	490	206	411	200	419	178
TOT PCT	15.1	39.3	38.5	8.4	.8	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	6.1	12.2	4.6	.2	*		23.2	11.5	19.7	26.5	23.1	23.5
NE	4.8	6.8	2.6	.3	.0		14.6	10.7	13.4	17.8	16.9	14.7
E	2.0	2.1	.7	*	.0		4.8	9.2	5.3	3.0	5.5	5.4
SE	1.9	3.1	1.2	.3	.1		6.7	12.4	8.2	6.7	5.6	5.9
S	4.2	9.8	5.3	1.4	.0		20.8	13.9	23.7	18.9	19.6	20.9
SW	2.9	3.6	1.2	.4	.0		8.0	10.6	8.4	7.8	8.8	7.0
W	3.2	3.7	.8	.1	.0		7.8	9.0	8.6	7.1	6.6	8.9
NW	3.6	5.9	1.5	.1	.0		11.1	9.9	9.5	13.3	11.5	9.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	3.3	2.9	2.3	3.9
TOT OBS	822	1217	463	72	4	2578		11.0	674	696	611	597
TOT PCT	31.9	47.2	18.0	2.8	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

MAY

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.3	11.4	40.5	35.9	7.9	1.0	.0	10.9	100.0	674
0600	2.9	13.4	36.6	38.5	7.8	.9	.0	10.9	100.0	696
1200	2.3	11.9	40.1	36.0	9.0	.5	.2	11.3	100.0	611
1800	3.9	11.1	40.0	35.2	9.0	.8	.0	11.0	100.0	597
TOT	79	309	1012	940	216	21	1	11.0		2578
PCT	3.1	12.0	39.3	36.5	8.4	.8	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	5.6	2.9	5.0	10.3		5.4
NE	3.2	1.3	3.7	5.2		3.4
E	.4	.2	1.1	2.9		0.8
SE	.6	.1	.9	5.2		7.0
S	2.2	.6	3.0	14.7		0.8
SW	.9	.4	1.5	4.9		0.6
W	1.4	.5	1.5	4.5		0.1
NW	2.2	.8	2.2	6.4		0.0
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.4	2.4		0.3
TOT OBS	397	135	449	1294	2295	0.1
TOT PCT	17.3	6.8	19.6	56.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.2	.3	.3	2.4	3.7	1.3	1.0	.9	.3	.1	10.3	
NE	1.8	.1	.2	.6	1.8	1.8	.9	.6	.3	*	5.5	
E	1.0	.0	.2	.8	.8	.5	.1	.1	*	.0	1.0	
SE	2.0	.1	.2	1.1	1.3	.6	.3	.1	.1	*	.9	
S	4.8	.3	.4	3.1	3.5	2.8	.8	.8	.2	.1	3.7	
SW	1.3	.1	.1	1.1	2.0	.9	.2	.3	.1	*	1.6	
W	1.4	.1	.1	1.0	1.0	1.1	.6	.3	.1	*	2.3	
NW	1.7	.1	.4	1.7	1.9	.9	.8	.3	.1	*	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	*	*	.3	.9	.1	.1	.2	*	.1	.8	
TOT OBS	416	29	47	278	390	228	109	81	30	10	681	2295
TOT PCT	18.1	1.1	2.0	12.1	17.0	9.9	4.7	3.5	1.3	.4	29.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	1.0	1.6	1.7	1.7	1.7	1.7	1.8	1.8
= OR >5000	1.7	3.5	5.0	5.1	5.2	5.2	5.3	5.3
= OR >3500	3.2	6.3	9.1	9.6	9.8	9.8	10.1	10.1
= OR >2000	6.0	12.3	17.6	18.7	19.3	19.5	19.9	19.9
= OR >1000	9.8	21.6	32.0	34.2	35.3	36.0	36.4	36.4
= OR >600	11.6	27.2	41.3	44.8	46.5	47.7	48.3	48.3
= OR >300	11.8	28.0	42.6	46.3	48.3	49.6	50.2	50.2
= OR >150	11.8	28.2	43.2	47.3	49.4	50.6	51.3	51.3
= OR >0	11.8	28.6	44.6	50.5	54.6	60.4	68.7	69.9
TOTAL	268	650	1013	1146	1240	1370	1559	1587

TOTAL NUMBER OF OBS: 2269

PCT FREQ NH <5/8: 30.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.6	9.6	6.3	4.0	2.8	3.2	6.3	8.3	35.8	17.1	2410

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

MAY

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.3	.3	.2	.5	.1	.2	.4	.0	*	2.2	
	NO PCP	2.7	1.1	.5	1.0	3.0	1.1	1.0	1.6	.0	.9	12.9	
	TOT %	2.9	1.4	.8	1.2	3.5	1.2	1.2	1.9	.0	.9	15.1	
1/2<1	PCP	.3	.4	.2	.3	.7	.2	.1	*	.0	.0	2.1	
	NO PCP	.3	.2	*	.3	.8	.2	*	.1	.0	*	2.0	
	TOT %	.6	.5	.3	.7	1.5	.4	.1	.1	.0	*	4.1	
1<2	PCP	.3	.3	.3	.6	1.0	.2	.4	.4	.0	.0	3.5	
	NO PCP	.4	.2	*	.3	.8	.3	.3	.3	.0	.0	2.6	
	TOT %	.7	.5	.3	.9	1.8	.5	.6	.8	.0	.0	6.0	
2<5	PCP	.5	.4	.4	.7	.6	.1	.1	.4	.0	.1	3.2	
	NO PCP	3.6	1.9	.4	.8	4.3	1.2	1.4	1.4	.0	.9	16.0	
	TOT %	4.1	2.3	.9	1.5	4.9	1.3	1.5	1.8	.0	1.0	19.3	
5<10	PCP	.3	.1	.1	.2	.3	.1	.1	*	.0	.0	1.3	
	NO PCP	6.6	3.6	1.0	1.4	4.3	2.2	2.0	2.7	.0	.2	24.1	
	TOT %	7.0	3.7	1.2	1.6	4.6	2.3	2.1	2.8	.0	.2	25.4	
10+	PCP	.0	*	.1	.0	.0	*	.1	*	.0	.0	.3	
	NO PCP	9.0	5.5	1.3	1.0	3.3	1.9	2.5	4.1	.0	1.1	29.7	
	TOT %	9.0	5.5	1.4	1.0	3.3	1.9	2.6	4.2	.0	1.1	30.0	
TOT OBS													2565
TOT PCT		24.2	13.8	4.9	6.9	19.6	7.6	8.1	11.6	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	.2	.3	.1	.2	.2	.3	.1	.0	.9	3.0	
	4-10	.7	.7	.4	.5	1.2	.8	.5	1.1	.0		6.0	
	11-21	1.1	.3	.1	.4	1.6	.3	.2	.6	.0		4.5	
	22+	.2	.2	.0	.2	.6	*	.0	.1	.0		1.3	
	TOT %	2.6	1.5	.8	1.1	3.6	1.3	1.1	1.9	.0	.9	14.8	
1/2<1	0-3	.1	*	.0	.1	.0	*	.0	*	.0	.0	.2	
	4-10	.2	.2	.1	.1	.3	.2	.1	.0	.0		1.2	
	11-21	.2	.2	.1	.3	.7	.2	.0	.1	.0		1.9	
	22+	*	.1	*	.2	.4	*	.0	.0	.0		.8	
	TOT %	.5	.5	.3	.7	1.4	.4	.1	.1	.0	.0	4.0	
1<2	0-3	*	*	.0	.1	.2	.1	*	.1	.0	.0	.5	
	4-10	.2	.2	.1	.3	.4	.3	.3	.2	.0		2.1	
	11-21	.4	.2	.1	.2	.9	.2	.2	.5	.0		2.8	
	22+	.0	*	.1	.2	.5	*	.1	*	.0		.9	
	TOT %	.7	.5	.3	.7	2.0	.7	.6	.8	.0	.0	6.3	
2<5	0-3	.4	.4	.2	.1	.2	.2	.4	.3	.0	.9	3.0	
	4-10	1.4	1.1	.5	.6	1.4	.7	.7	.9	.0		7.4	
	11-21	2.0	.6	.2	.6	2.3	.4	.5	.6	.0		7.5	
	22+	.4	.4	*	.2	1.2	.1	.1	.1	.0		2.5	
	TOT %	4.2	2.4	.9	1.6	5.4	1.4	1.6	1.9	.0	.9	20.3	
5<10	0-3	.8	.7	.2	.2	.5	.3	.2	.3	.0	.2	3.5	
	4-10	2.5	1.3	.4	.8	1.4	.8	1.0	1.5	.0		9.6	
	11-21	2.4	1.6	.6	.5	1.9	.9	.6	.7	.0		9.6	
	22+	.4	.3	*	.2	.9	.3	.1	.2	.0		2.5	
	TOT %	6.5	3.8	1.2	1.6	4.7	2.3	1.9	2.7	.0	.2	25.1	
10+	0-3	1.3	.8	.4	.1	.3	.2	.4	.5	.0	1.0	4.9	
	4-10	2.7	2.7	.6	.6	1.9	1.0	1.2	2.3	.0		13.1	
	11-21	4.3	1.8	.4	.3	.9	.5	.8	1.1	.0		10.2	
	22+	.3	.3	.0	*	.3	.3	.2	.1	.0		1.3	
	TOT %	8.6	5.5	1.5	1.0	3.3	2.0	2.6	4.0	.0	1.0	29.4	
TOT OBS													2469
TOT PCT		23.1	14.3	4.9	6.7	20.5	8.2	8.0	11.4	.0	3.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

MAY

AREA 0015 OKHOTSK SEA NE
55.5N 154.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	15.7	1.4	2.2	11.6	17.1	11.4	4.0	3.3	1.3	.2	68.1	31.9	631
06009	14.9	1.4	2.9	11.4	16.0	11.2	4.6	3.4	2.0	.2	67.9	32.1	651
12015	23.0	.2	.6	10.9	14.8	7.0	4.5	3.1	1.4	1.0	66.5	33.5	513
18021	20.0	1.3	2.0	14.8	18.7	9.9	6.1	4.0	.4	.5	77.7	22.3	555
TOT	425	26	47	285	392	236	112	81	30	10	1644	706	2350
PCT	18.1	1.1	2.0	12.1	16.7	10.0	4.8	3.4	1.3	.4	70.0	30.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	13.6	5.4	7.4	18.6	24.2	30.9	706
06009	13.4	3.3	6.2	17.9	26.9	32.3	722
12015	17.4	3.2	5.8	21.3	23.9	28.3	619
18021	17.6	4.6	5.7	21.2	25.1	25.8	609
TOT	408	110	168	521	666	783	2656
PCT	15.4	4.1	6.3	19.6	25.1	29.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	16.4	25.9	51.3	22.5	26.2	610
06009	15.5	23.6	49.0	22.5	28.3	631
12015	23.9	27.2	52.7	17.6	29.6	493
18021	21.1	28.0	58.5	23.0	18.5	535
TOT	429	591	1195	489	585	2269
PCT	18.9	26.0	52.7	21.6	25.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
45/49	.0	.0	.0	.0	.3	.3	.1	.0	5	.6
40/44	.0	.0	.1	.1	.1	.8	2.2	.6	31	3.9
35/39	.0	.0	.0	.0	.4	4.3	7.9	26.2	305	38.8
30/34	.0	.0	.0	.0	.5	1.3	9.9	41.2	416	52.9
25/29	.0	.0	.0	.0	.3	.6	.3	2.4	28	3.6
TOTAL	0	0	1	1	13	37	160	554	786	100.0
PCT	.0	.0	.1	.1	1.7	7.3	20.4	70.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.0	.1	.0	.2	.1	.0	.2	.1	.0	.0
40/44	.9	.3	.0	.3	.5	.2	.3	1.3	.0	.3
35/39	8.9	3.8	2.7	3.5	8.4	2.5	1.0	4.9	.0	3.1
30/34	14.2	2.6	1.9	3.1	11.0	5.7	3.7	8.2	.0	2.5
25/29	1.2	.2	.2	.6	.2	.3	.4	.4	.0	.1
TOTAL	25.3	7.2	4.8	7.5	20.3	8.6	5.6	14.8	.0	6.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	59	50	43	36	30	28	23	36.3	725
06009	50	46	43	36	31	28	23	36.1	745
12015	45	41	37	34	30	28	23	33.7	643
18021	50	41	37	33	28	27	23	33.3	633
TOT	59	46	41	34	30	27	23	35.0	2746

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	.5	2.9	10.2	24.8	61.7	90	206		
06009	.0	.5	1.8	8.7	24.3	64.7	90	218		
12015	.0	.0	.5	4.2	14.1	81.3	94	192		
18021	.0	.0	1.1	5.4	17.3	76.2	93	185		
TOT	0	2	13	38	163	565	92	801		

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

MAY

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.1	.2	4	.1	.2
11/13	.0	.0	.0	.0	.1	.7	.1	13	.1	.8
9/10	.0	.0	.0	.0	.4	.4	.1	12	.4	.5
7/8	.0	.0	.0	1.1	1.8	.2	.0	43	.4	2.8
6	.0	.0	.0	.8	.1	.1	.0	14	.1	.9
5	.0	.0	1.0	3.3	.7	.1	.0	69	.4	4.6
4	.0	.3	4.6	3.4	.7	.0	.0	124	1.3	7.8
3	.0	.0	4.0	1.2	.3	.0	.0	76	.7	4.8
2	.0	1.4	11.9	3.8	.4	.0	.0	239	2.4	15.1
1	.0	1.8	6.4	1.0	.1	.0	.0	129	1.7	7.8
0	.1	10.3	9.5	1.3	.3	.0	.0	294	4.8	16.7
-1	.1	2.7	3.6	.4	.1	.0	.0	94	1.6	5.3
-2	.6	5.8	2.6	.4	.0	.0	.0	128	2.9	6.4
-3	.1	1.8	1.0	.1	.0	.0	.0	42	1.5	1.5
-4	.8	1.1	.8	.2	.0	.0	.0	40	1.0	1.9
-5	.1	.7	.4	.1	.0	.0	.0	18	.5	.8
-6	.1	.3	.4	.0	.0	.0	.0	11	.2	.6
-7/-8	.4	.1	.1	.1	.1	.0	.0	10	.3	.4
-9/-10	.2	.0	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	36	361	631	238	73	6	6	1365	282	1083
PCT	2.6	26.4	46.2	17.4	5.3	1.5	.4	100.0	20.7	79.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.1	.5	.0	.0	.0	5.5	.8	2.2	.2	.0	.0	.0	3.2
1-2	.0	1.5	4.1	.0	.0	.0	5.6	.0	.9	.4	.0	.0	.0	1.4
3-4	.2	2.2	6.1	.4	.0	.0	8.9	.0	.5	.7	.4	.0	.0	1.6
5-6	.0	.1	2.0	.8	.0	.0	3.0	.0	.8	1.1	.2	.0	.0	1.3
7	.0	.0	.2	.2	.2	.0	.5	.0	.0	1.1	.2	.0	.0	1.3
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	7.0	13.1	1.8	.4	.0	24.3	.8	3.8	3.5	.9	.1	.0	9.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.9	.5	1.4	.2	.0	.0	.0	2.1
1-2	.0	.7	.2	.0	.0	.0	.9	.2	.6	.8	.0	.0	.0	1.6
3-4	.0	.5	1.0	.0	.0	.0	1.5	.0	.4	.6	.0	.0	.0	.9
5-6	.0	.6	.8	.0	.0	.0	1.4	.0	.2	.3	.4	.0	.0	.8
7	.0	.0	.2	.8	.0	.0	.7	.0	.0	.3	.8	.2	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.1	2.2	.6	.0	.0	5.4	.7	2.5	2.4	.6	.4	.0	6.6

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	2.4	.6	.0	.0	.0	3.3	.4	1.4	.2	.0	.0	.0	.0	1.9
1-2	.0	1.3	2.8	.0	.0	.0	4.2	*	.6	.7	.0	.0	.0	.0	1.3
3-4	.0	.8	2.0	1.6	.0	.0	4.5	*	1.2	1.7	.2	.0	.0	.0	3.1
5-6	.0	.4	1.7	1.1	.0	.0	3.2	.0	.5	1.4	.8	.0	.0	.0	2.7
7	.0	.0	.6	.6	.2	.0	1.4	.0	.0	.6	.0	.0	.0	.0	.6
8-9	.0	.0	.5	.9	.2	.0	1.5	.0	.0	.2	.2	.0	.0	.0	.5
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.9	8.2	4.6	.7	.0	18.8	.4	3.7	4.9	1.2	.0	.0	.0	10.2

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.4	1.6	.3	.0	.0	.0	2.3	.5	2.7	.2	.0	.0	.0	.0	3.5
1-2	.2	.9	.3	.0	.0	.0	1.5	*	1.6	.8	.0	.0	.0	.0	2.4
3-4	.1	.4	1.1	.1	.0	.0	1.8	.0	2.1	4.0	.0	.0	.0	.0	6.1
5-6	.0	.2	.6	.0	.0	.0	.7	.0	.5	1.2	.1	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.1	2.3	.1	.0	.0	6.3	.6	7.0	6.3	.1	.0	.0	14.0	94.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	10.5	15.2	2.0	.0	.0	.0	27.8	085
1-2	.5	8.2	10.2	.0	.0	.0	18.8	
3-4	.5	8.2	17.3	2.7	.0	.0	28.6	
5-6	.0	2.5	9.1	3.3	.0	.0	14.9	
7	.0	.0	3.1	1.6	.5	.0	5.2	
8-9	.0	.0	1.1	1.4	.2	.0	2.7	
10-11	.0	.0	.2	.8	.0	.0	.9	
12	.0	.0	.0	.0	.5	.0	.5	
13-16	.0	.0	.0	.2	.2	.0	.2	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	34.1	43.0	9.9	1.6	.0	100.0	637

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	17.9	14.9	15.7	6.3	3.9	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	558	2
6-7	.1	2.7	8.8	5.6	2.5	.6	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	5
8-9	.0	.1	1.6	1.8	.4	.1	.3	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	6
10-11	.0	.1	.1	.0	.1	.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
12-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	7.4	.7	1.6	1.0	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	2
TOTAL	237	173	261	138	67	21	19	11	3	5	0	0	0	0	0	0	0	0	0	935	3
PCT	25.3	18.5	27.9	14.8	7.2	2.2	2.0	1.2	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

JUNE

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.7	.4	1.2	.0	.0	.0	.0	6.3	2.3	.0	22.4	1.1	.0	.0	67.7
NE	10.0	.0	.0	.0	.0	.0	.0	10.0	.2	.0	20.2	1.5	.0	.0	68.1
E	18.9	.0	2.2	.0	.0	.0	.0	20.2	4.1	.0	11.7	.9	.0	.0	63.1
SE	31.8	.0	6.7	.0	.0	.0	.0	38.3	3.8	.0	12.2	1.5	.0	.0	44.2
S	14.1	.5	9.5	.0	.0	.0	.0	22.8	2.3	.0	32.1	.9	.3	.0	41.7
SW	6.0	.1	11.5	.0	.0	.0	.0	17.7	.9	.0	35.8	2.6	.0	.0	43.2
W	3.9	.6	1.3	.0	.0	.0	.0	5.8	3.0	.0	25.9	.7	.0	.0	64.6
NW	4.0	.0	2.0	.0	.0	.0	.0	6.1	1.4	.0	23.8	.8	.0	.0	68.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	.0	25.9	1.2	1.2	.0	67.9
TOT PCT	10.7	.3	5.0	.0	.0	.0	.0	15.9	2.1	.0	25.3	1.2	.1	.0	55.4
TOT OBS:	1476														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	11.1	.3	4.8	.0	.0	.0	.0	16.1	2.0	.0	24.4	1.5	.3	.0	55.8
06009	11.3	.3	2.2	.0	.0	.0	.0	13.7	1.3	.0	23.7	1.1	.0	.0	60.2
12015	10.3	.3	6.3	.0	.0	.0	.0	16.6	1.8	.0	27.1	.3	.3	.0	53.9
18021	10.9	.3	6.9	.0	.0	.0	.0	17.7	3.4	.0	26.0	2.0	.0	.0	50.9
TOT PCT	10.9	.3	5.0	.0	.0	.0	.0	16.0	2.1	.0	25.3	1.2	.1	.0	55.3
TOT OBS:	1500														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	7.7	6.1	.9	.0	.0		16.2	10.8		14.4	14.8	18.5	23.8	14.4	15.8	15.0	17.9
NE	1.1	4.2	1.7	.1	.0	.0		7.1	7.9		7.1	4.0	5.3	7.1	7.5	8.6	10.6	4.5
E	.9	2.5	.9	.2	.0	.0		4.5	7.8		3.7	3.2	2.8	3.4	4.6	6.9	5.4	8.8
SE	1.0	3.2	9.2	1.0	.0	.0		10.4	12.4		14.8	12.1	5.8	5.6	8.7	8.3	11.6	17.6
S	1.1	6.8	11.5	4.4	.3	.0		24.1	15.0		27.0	25.3	20.9	23.8	26.3	27.0	20.2	23.9
SW	.8	5.3	4.1	.9	.0	.0		11.1	11.0		8.6	13.4	17.3	9.3	10.1	6.6	11.6	6.3
W	2.1	5.1	2.0	.0	.0	.0		9.3	7.3		11.6	5.1	9.5	7.7	8.8	5.2	12.1	6.3
NW	1.3	6.3	4.1	.0	.0	.0		11.8	9.2		8.2	15.6	13.0	13.3	13.0	17.0	10.3	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0		4.5	6.5	7.0	6.2	6.5	4.6	3.3	6.8
TOT OBS	199	531	462	97	4	0	1293		10.5		243	93	243	81	246	87	212	88
TOT PCT	15.4	41.1	39.7	7.5	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	4.4	8.8	2.7	.3	.0			16.2	10.8	14.5	19.8	14.8	15.8
NE	3.3	3.5	.3	.0	.0			7.1	7.9	6.3	5.8	7.8	8.8
E	2.4	1.7	.3	.0	.0			4.5	7.8	3.6	2.9	5.2	6.4
SE	2.3	5.6	2.4	.2	.0			10.4	12.4	14.1	5.7	8.6	13.3
S	3.5	10.7	8.1	1.7	.0			24.1	15.0	26.5	21.6	26.5	21.3
SW	3.7	5.1	2.1	.2	.0			11.1	11.0	10.0	15.3	9.2	10.0
W	4.5	4.3	.4	.0	.0			9.3	7.3	9.8	9.0	7.9	10.4
NW	3.4	7.7	.7	.0	.0			11.8	9.2	10.3	13.0	14.0	9.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	5.1	6.8	6.0	4.3
TOT OBS	428	613	221	31	0	1293		10.5		336	324	333	300
TOT PCT	33.1	47.4	17.1	2.4	.0			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

JUNE

AREA 0015 DKHOTSK SEA NE
55.3N 154.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	5.1	11.6	38.1	38.1	7.1	.0	.0	10.4	100.0	336
06609	6.8	7.7	39.8	37.7	7.4	.6	.0	10.9	100.0	324
12615	6.0	9.3	43.8	33.0	7.8	.0	.0	10.3	100.0	333
18621	4.3	10.7	42.7	34.0	7.7	.7	.0	10.6	100.0	300
TOT	72	127	531	462	97	4	0	10.5		1293
PCT	5.6	9.8	41.1	35.7	7.5	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	2.7	.8	3.0	8.7		6.1
NE	1.1	.6	.7	4.4		6.3
E	.2	.4	1.2	3.0		7.0
SE	.3	.2	1.4	8.5		7.5
S	1.1	.6	2.4	20.8		7.4
SW	.7	.4	.9	9.7		7.3
W	.8	.2	1.3	6.9		7.1
NW	1.7	.6	2.4	6.6		6.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.7	1.2	3.0		6.3
TOT OBS	130	62	202	993	1387	6.9
TOT PCT	9.4	4.5	14.6	71.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT-NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	2.6	.1	.3	3.4	1.7	1.0	.4	.4	.4	.1	4.8	
NE	.9	.1	.1	1.3	1.3	.7	.1	.3	.0	.1	2.0	
E	.3	.0	.1	1.4	1.5	.4	.1	.1	.2	.1	.7	
SE	1.6	.1	1.3	2.4	2.1	1.1	.4	.2	.3	*	.8	
S	6.2	.9	1.3	7.0	4.3	1.4	.6	.5	.1	.1	2.6	
SW	3.4	.1	.3	2.4	2.4	1.0	.4	.5	*	.0	1.2	
W	1.6	.1	.2	1.7	2.1	1.7	.2	.4	.0	.0	1.4	
NW	2.2	*	.1	1.6	2.3	1.0	.3	.3	.1	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.1	.1	.2	1.4	.7	.1	.1	.1	.0	1.7	
TOT OBS	277	20	52	297	265	124	37	38	18	4	255	1387
TOT PCT	20.0	1.4	3.7	21.4	19.1	8.9	2.7	2.7	1.3	.3	18.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >9500	1.1	1.4	1.5	1.5	1.5	1.6	1.6	1.6
= OR >9000	1.4	2.5	3.1	3.3	3.3	3.6	4.3	4.3
= OR >8500	2.9	4.8	5.7	5.8	5.9	6.2	6.9	6.9
= OR >8000	5.7	11.7	14.6	14.9	15.0	15.3	15.9	15.9
= OR >7500	12.2	25.1	31.7	32.6	33.1	34.2	34.9	34.9
= OR >7000	16.7	36.4	47.6	51.0	52.4	54.9	56.0	56.0
= OR >6500	16.7	37.6	50.4	54.6	56.2	58.7	59.9	59.9
= OR >6000	16.7	37.7	51.1	55.7	57.3	59.9	61.2	61.2
= OR >5500	16.7	37.9	51.9	57.3	60.7	68.0	80.7	81.5
TOTAL	231	523	716	791	837	939	1113	1125

TOTAL NUMBER OF OBS: 1380

PCT FREQ NM <5/8: 18.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.0	9.2	4.6	1.8	2.6	3.6	4.4	5.6	49.8	18.5	1439

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

U/E

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.6	.3	.0	.0	.0	.0	1.1	
	NO PCP	2.8	1.0	.4	.9	5.9	3.6	2.0	2.3	.0	1.3	20.1	
	TOT %	2.8	1.0	.4	1.1	6.5	3.9	2.0	2.3	.0	1.3	21.2	
1/2<1	PCP	.1	.0	.0	.2	.5	.2	.0	.0	.0	.0	1.0	
	NO PCP	.9	.2	.2	.1	1.3	.2	.1	.2	.0	.0	2.7	
	TOT %	.9	.2	.2	.3	1.8	.4	.1	.2	.0	.0	3.7	
1<2	PCP	.1	.2	.2	.9	1.7	.3	.0	.1	.0	.0	3.5	
	NO PCP	.1	.1	.1	.0	.8	.2	.2	.0	.0	.1	1.7	
	TOT %	.2	.3	.3	.9	2.5	.5	.2	.1	.0	.1	5.2	
2<5	PCP	.9	.1	.3	1.4	2.3	.5	.2	.2	.0	.0	5.6	
	NO PCP	1.6	.5	.4	1.4	2.4	1.4	.6	.8	.0	.6	9.7	
	TOT %	2.2	.6	.7	2.8	4.7	1.9	.9	1.0	.0	.6	15.3	
5<10	PCP	.2	.3	.6	1.3	.6	.7	.2	.3	.0	.2	4.5	
	NO PCP	3.9	1.6	.9	1.4	4.9	2.3	3.3	3.6	.0	.7	22.5	
	TOT %	4.1	1.9	1.6	2.7	5.4	3.0	3.5	3.9	.0	.9	27.0	
10+	PCP	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	NO PCP	5.9	2.7	2.3	2.6	4.0	2.1	2.4	3.3	.0	2.6	27.4	
	TOT %	5.9	2.8	2.3	2.6	4.0	2.1	2.5	3.4	.0	2.6	27.7	
TOT OBS													1473
TOT PCT		15.3	6.8	5.3	10.4	24.9	11.8	9.1	10.9	.0	5.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.3	.0	.1	.3	.3	.7	.6	.0	1.3	3.8	
	4-10	1.6	.5	.4	.3	1.9	1.3	.9	1.3	.0	.0	8.2	
	11-21	1.0	.0	.0	.7	3.4	1.5	.4	.7	.0	.0	7.9	
	22+	.1	.0	.0	.0	1.1	.7	.0	.0	.0	.0	1.9	
	TOT %	2.9	1.1	.4	1.1	6.8	3.8	1.9	2.3	.0	1.3	21.8	
1/2<1	0-3	.1	.2	.0	.0	.0	.0	.1	.0	.0	.0	.4	
	4-10	.2	.0	.1	.2	.2	.2	.0	.1	.0	.0	1.0	
	11-21	.1	.0	.1	.2	1.0	.1	.0	.1	.0	.0	1.6	
	22+	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	TOT %	.4	.3	.1	.4	1.4	.4	.1	.2	.0	.0	3.3	
1<2	0-3	.2	.1	.1	.0	.1	.0	.0	.0	.0	.1	.5	
	4-10	.0	.3	.0	.2	.5	.3	.0	.0	.0	.0	1.3	
	11-21	.1	.0	.1	.4	1.1	.1	.0	.1	.0	.0	1.8	
	22+	.0	.0	.1	.2	.7	.0	.0	.0	.0	.0	1.0	
	TOT %	.2	.4	.2	.7	2.4	.4	.0	.1	.0	.1	4.6	
2<5	0-3	.2	.1	.1	.0	.0	.2	.0	.2	.0	.7	1.5	
	4-10	1.0	.3	.3	.7	.9	.8	.6	.6	.0	.0	5.2	
	11-21	.5	.2	.2	1.6	2.4	.8	.2	.4	.0	.0	6.3	
	22+	.6	.0	.0	.6	1.5	.0	.0	.0	.0	.0	2.8	
	TOT %	2.4	.6	.6	3.0	4.8	1.7	.9	1.1	.0	.7	15.8	
5<10	0-3	.2	.1	.3	.4	.2	.2	.8	.4	.0	1.0	3.6	
	4-10	2.8	1.2	.7	.9	1.5	1.4	2.2	2.5	.0	.0	13.2	
	11-21	1.6	.6	.2	1.3	2.2	1.1	.9	1.2	.0	.0	9.2	
	22+	.1	.0	.1	.2	.9	.1	.0	.0	.0	.0	1.3	
	TOT %	4.7	1.9	1.3	2.7	4.8	2.9	3.9	4.1	.0	1.0	27.3	
10+	0-3	.6	.3	.3	.4	.6	.1	.5	.1	.0	2.5	5.4	
	4-10	2.3	1.7	1.2	1.0	1.6	1.3	1.8	1.9	.0	.0	12.5	
	11-21	2.8	.5	.4	1.1	1.4	.6	.6	1.5	.0	.0	8.9	
	22+	.2	.1	.1	.1	.2	.0	.0	.0	.0	.0	.6	
	TOT %	5.8	2.6	1.9	2.7	3.7	1.9	2.6	3.5	.0	2.5	27.3	
TOT OBS													1261
TOT PCT		16.5	6.9	4.5	10.5	23.9	11.2	9.3	11.6	.0	5.6	100.0	

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

JUNE

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00009	18.5	.5	5.9	24.2	18.3	8.3	2.7	3.5	1.1	.3	83.3	16.7	372
06009	16.4	1.4	4.0	20.7	17.8	10.2	3.7	2.0	1.4	.3	77.9	22.1	353
12015	24.6	1.2	1.4	19.1	18.2	9.2	2.0	2.9	2.0	.3	80.9	19.1	346
18021	20.5	2.7	3.9	21.1	21.4	8.3	2.4	2.4	.6	.3	83.6	16.4	336
TOT	281	20	54	300	266	127	38	38	18	4	1146	261	1407
PCT	20.0	1.4	3.8	21.3	18.9	9.0	2.7	2.7	1.3	.3	81.4	18.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	19.7	4.0	6.0	18.2	24.7	27.4	401
06009	18.9	2.9	4.5	16.5	28.7	28.5	376
12015	23.7	3.2	5.8	13.9	24.5	29.5	380
18021	23.9	4.8	6.3	11.4	29.3	24.4	352
TOT	324	56	83	228	403	415	1509
PCT	21.5	3.7	5.5	15.1	26.7	27.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	18.7	30.9	62.9	22.5	14.6	369
06009	16.7	27.1	55.0	25.6	19.3	347
12015	23.0	31.8	54.8	27.4	17.9	336
18021	21.0	34.1	60.1	25.0	14.9	328
TOT	280	427	804	346	230	1380
PCT	20.3	30.9	58.3	25.1	16.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.3	.2	.0	.0	3	.5
55/59	.0	.0	.0	.0	.2	.8	.2	.0	7	1.1
50/54	.0	.0	.0	.0	.0	1.1	4.6	1.8	49	7.6
45/49	.0	.0	.0	.0	.3	2.5	11.9	28.7	281	43.3
40/44	.0	.0	.0	.2	.0	.3	7.2	31.6	255	39.3
35/39	.0	.0	.0	.0	.0	.0	.9	7.4	54	8.3
TOTAL	0	0	0	1	5	31	161	451	649	100.0
PCT	.0	.0	.0	.2	.8	4.8	24.8	69.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.2	.0	.0	.0	.2	.0	.0	.0	.0	.2
55/59	.2	.0	.0	.2	.0	.0	.2	.5	.0	.2
50/54	1.7	.5	.3	.4	.4	1.3	1.0	1.2	.0	.9
45/49	5.0	2.9	4.5	5.3	10.4	4.1	2.6	5.7	.0	2.8
40/44	7.6	1.9	.7	5.3	11.4	3.8	3.2	4.3	.0	1.1
35/39	2.5	.2	.0	.2	1.9	.4	.5	2.0	.0	.6
TOTAL	17.0	5.5	5.5	11.3	24.3	9.6	7.4	13.7	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	58	53	45	38	36	33	44.7	403
06009	65	59	54	45	37	35	32	45.0	380
12015	51	50	48	43	36	32	32	42.7	392
18021	55	52	48	43	36	32	30	42.1	360
TOT	68	55	51	43	37	33	30	43.7	1535

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.6	1.2	10.4	28.7	59.1	90	164
06009	.0	.0	1.2	6.0	31.5	61.3	91	168
12015	.0	.0	.0	.6	23.8	75.6	93	164
18021	.0	.0	.6	2.5	16.8	80.1	93	161
TOT	0	1	5	32	166	453	92	657

JUNE

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

TABLE 17

AREA 0015 OKHOTSK SEA NE
55.3N 154.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.2	.2	5	.0	.4
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	3	.0	.3
14/16	.0	.0	.0	.0	.2	.1	.0	.2	.0	.0	5	.1	.4
11/13	.0	.0	.0	.1	.1	.3	.6	.2	.1	.0	15	.3	1.1
9/10	.0	.0	.0	.0	.4	.5	.2	.2	.0	.0	14	.2	1.1
7/8	.0	.0	.0	.0	1.0	1.2	.8	.0	.0	.0	34	.7	2.3
6	.0	.0	.0	.0	.5	1.1	.2	.0	.0	.0	20	.3	1.5
5	.0	.0	.0	.6	1.9	1.6	.1	.0	.0	.0	48	.7	3.5
4	.0	.0	.0	1.5	5.0	.8	.1	.0	.0	.0	84	.6	6.8
3	.0	.0	.2	1.6	4.1	.9	.0	.0	.0	.0	76	.6	4.1
2	.0	.2	1.1	3.9	7.7	.8	.0	.0	.0	.0	154	2.6	11.0
1	.0	.1	1.9	7.0	4.9	.6	.0	.0	.0	.0	164	3.1	11.4
0	.1	.4	2.8	8.0	4.7	.4	.0	.0	.0	.0	186	4.1	12.2
-1	.0	.4	1.0	5.6	1.7	.1	.0	.0	.0	.0	98	2.2	6.4
-2	.2	.3	2.0	4.6	.8	.0	.1	.0	.0	.0	90	3.3	4.7
-3	.1	.3	2.1	1.1	.4	.0	.0	.0	.0	.0	44	1.6	2.3
-4	.2	.7	1.4	1.1	.2	.0	.0	.0	.0	.0	40	1.5	2.0
-5	.2	.4	2.3	.3	.1	.0	.0	.0	.0	.0	36	1.1	2.0
-6	.0	.3	.4	.1	.0	.0	.0	.0	.0	.0	8	.5	.2
-7-8	.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	9	.5	.3
-9/-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.2	.0
TOTAL	10	38	179	401	380	95	24	8	3	3	1135	274	861
PCT	.9	3.3	15.2	35.3	33.5	8.4	2.1	.7	.3	.3	100.0	24.1	75.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	2.6	.4	.0	.0	.0	3.5	.2	2.8	.4	.0	.0	.0	3.4
1-2	.4	3.4	2.4	.0	.0	.0	6.2	.*	.9	.5	.0	.0	.0	1.5
3-4	.1	.9	2.9	.9	.0	.0	4.9	.0	.7	.3	.0	.0	.0	1.0
5-6	.0	.0	.9	.1	.0	.0	1.1	.0	.1	.4	.0	.0	.0	.6
7	.0	.0	.3	.3	.0	.0	.6	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.*	.0	.0	.0	.*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.0	7.2	1.3	.0	.0	16.5	.3	4.7	2.1	.1	.0	.0	7.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.1	1.5	.1	.0	.0	.0	2.7	.2	1.7	.*	.0	.0	.0	.0
1-2	.1	1.4	.7	.0	.0	.0	2.2	.3	1.2	2.8	.0	.0	.0	4.4
3-4	.0	.1	.1	.3	.0	.0	.5	.0	1.1	2.6	.5	.0	.0	4.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.4	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.0	.*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.0	1.0	.3	.0	.0	5.4	.3	4.2	6.6	1.3	.*	.0	12.7

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.9	.3	.0	.0	.0	2.6	.6	2.1	.0	.0	.0	.0	2.7
1-2	.3	3.0	1.4	.0	.0	.0	4.6	.0	1.3	.8	.0	.0	.0	2.0
3-4	.0	1.2	2.8	.4	.0	.0	4.4	.0	.9	.7	.0	.0	.0	1.6
5-6	.0	.4	2.4	1.6	.1	.0	4.6	.0	.1	1.6	.4	.0	.0	2.1
7	.0	.0	2.6	.9	.0	.0	3.4	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.1	.4	.1	.0	.6	.0	.0	.3	.1	.0	.0	.5
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.5	9.8	3.4	.2	.0	20.7	.6	4.4	3.8	.5	.0	.0	9.4

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	1.6	2.0	.1	.0	.0	.0	3.7	.2	2.7	.4	.0	.0	.0	3.4	
1-2	.1	1.2	.4	.0	.0	.0	1.8	.1	2.1	1.5	.0	.0	.0	3.7	
3-4	.0	.4	1.1	.0	.0	.0	1.5	.0	.8	3.0	.0	.0	.0	3.8	
5-6	.0	.3	.4	.0	.0	.0	.7	.0	.0	.8	.0	.0	.0	.8	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	3.8	2.2	.0	.0	.0	7.8	.4	5.7	5.9	.0	.0	.0	12.0	91.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.8	17.3	1.9	.0	.0	.0	31.9	
1-2	1.9	14.5	10.4	.0	.0	.0	26.9	
3-4	.1	6.1	13.6	2.0	.0	.0	21.9	
5-6	.0	1.2	7.3	2.9	.1	.0	11.0	
7	.0	.0	4.4	1.5	.0	.0	5.8	
8-9	.0	.1	.7	.6	.1	.0	1.6	
10-11	.0	.0	.3	.1	.0	.0	.4	
12	.0	.1	.0	.3	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.8	39.3	38.6	7.0	.3	.0	100.0	689

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.6	22.1	14.4	7.1	2.2	.6	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	540	3
6-7	.0	2.7	6.2	6.8	3.0	1.3	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	5
8-9	.0	1.4	1.5	3.6	2.1	.6	.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	6
10-11	.0	.4	.0	.0	.2	.4	.4	.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	2.8	1.8	1.5	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	2
TOTAL	126	267	224	175	75	32	18	4	17	2	0	0	0	0	0	0	0	0	0	940	4
PCT	13.4	28.4	23.8	18.6	8.0	3.4	1.9	.4	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1969-1974
(OVER-ALL) 1906-1974

JULY

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.3	.0	.6	.0	.0	.0	.0	2.8	1.0	.0	31.5	1.1	.0	.0	69.6
NE	6.6	.0	5.8	.0	.0	.0	.0	12.5	1.1	.0	22.7	.0	2.2	.0	61.5
E	18.8	.0	6.9	.0	.0	.0	.0	25.7	5.4	.0	26.7	2.0	.0	.0	40.1
SE	11.1	.3	9.0	.0	.0	.0	.0	20.3	6.6	.0	30.3	.0	.0	.0	42.7
S	14.0	.7	9.7	.0	.0	.0	.0	23.9	2.7	.0	33.9	1.2	.3	.0	38.0
SW	5.1	.1	6.9	.0	.0	.0	.0	12.1	2.1	.0	40.0	1.1	.8	.0	43.9
W	3.8	.4	1.6	.0	.0	.0	.0	5.9	1.0	.0	33.2	.4	1.0	.0	58.4
NW	1.0	.0	3.4	.0	.0	.0	.0	4.4	.0	.0	33.3	1.6	.2	.0	56.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7	1.4	3.5	.0	.0	.0	.0	10.6	1.4	.0	51.8	.0	.0	.0	36.2
TOT PCT	7.5	.4	5.7	.0	.0	.0	.0	13.5	2.5	.0	35.0	.9	.5	.0	47.6
TOT OBS:	1461														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	4.4	.5	4.6	.0	.0	.0	.0	9.2	2.2	.0	35.7	1.2	.5	.0	51.2
0600	8.3	.0	4.4	.0	.0	.0	.0	12.7	1.1	.0	34.5	1.1	.6	.0	50.0
1200	9.5	.8	6.5	.0	.0	.0	.0	16.5	.8	.0	34.1	.3	1.1	.0	47.2
1800	8.7	.3	7.2	.0	.0	.0	.0	16.1	6.0	.0	36.7	1.2	.0	.0	40.0
TOT PCT	7.6	.4	5.6	.0	.0	.0	.0	13.5	2.4	.0	35.3	.9	.5	.0	47.4
TOT OBS:	1478														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	5.9	3.3	1.1	.0	.0		11.3	10.6	9.8	10.8	13.4	15.2	12.0	10.4	10.2	7.3	
NE	.4	3.0	2.6	.4	.0	.0		6.4	10.9	7.4	7.9	6.0	5.3	6.3	3.4	7.3	3.5	
E	.3	1.9	1.1	.1	.0	.0		3.4	9.3	3.6	.0	2.5	.0	3.2	3.0	7.2	3.1	
SE	.7	3.4	2.8	.1	.0	.0		6.7	9.7	7.4	8.2	6.3	3.0	6.2	1.9	9.3	4.6	
S	1.5	10.5	12.4	2.8	.0	.0		27.1	12.7	26.0	36.7	28.0	28.0	22.7	34.0	21.7	43.1	
SW	.8	8.7	6.2	.4	.0	.0		16.0	10.4	13.4	14.9	15.7	17.0	17.8	14.9	16.4	21.9	
W	1.6	7.1	3.5	.2	.0	.0		12.4	8.3	10.4	12.3	13.8	20.8	13.7	19.0	9.1	5.8	
NW	.5	4.9	1.5	.2	.0	.0		7.1	8.5	7.1	5.4	8.1	6.1	8.0	7.5	6.2	4.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.7							9.7	.0	14.8	3.8	6.2	4.5	10.2	6.0	12.6	6.2	
TOT OBS	205	566	413	64	0	0		1248	9.6	277	79	242	66	246	67	206	65	
TOT PCT	16.4	45.4	33.1	5.1	0	0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					03	06	12	18	21
N	3.7	5.6	1.7	.2	.0		11.3	10.6	10.0	13.8	11.7	9.5		
NE	1.7	3.6	1.0	#	.0		6.4	10.9	7.5	5.8	5.7	6.4		
E	1.4	1.4	.5	.0	.0		3.4	9.3	2.8	1.9	3.1	6.2		
SE	2.4	3.2	1.1	.0	.0		6.7	9.7	7.6	5.6	5.3	8.2		
S	4.9	14.9	6.5	.9	.0		27.1	12.7	26.4	28.0	25.1	26.8		
SW	4.3	9.5	2.2	.0	.0		16.0	10.4	13.8	16.0	17.2	17.7		
W	6.0	5.2	1.1	.1	.0		12.4	8.3	10.8	13.3	14.9	8.3		
NW	3.0	3.6	.5	.1	.0		7.1	8.5	6.7	7.6	7.9	5.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	9.7						9.7	.0	12.4	5.8	9.3	11.1		
TOT OBS	466	584	182	16	0	1248		9.6	358	308	313	271		
TOT PCT	37.3	46.8	14.6	1.3	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1906-1974

JULY

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	12.4	6.5	43.5	34.0	3.7	.0	.0	9.3	100.0	356
0600	5.8	7.5	48.4	31.5	6.8	.0	.0	9.9	100.0	308
1200	9.3	5.8	47.6	33.5	3.8	.0	.0	9.4	100.0	313
1800	11.1	7.4	41.7	33.2	6.6	.0	.0	9.8	100.0	271
TOT	121	84	566	413	64	0	0	9.6		1248
PCT	9.7	6.7	45.4	33.1	5.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.5	.7	1.4	5.9		5.4
NE	1.4	.2	1.0	3.5		5.9
E	.1	.1	.6	2.6		7.3
SE	.2	.1	.5	5.6		7.6
S	.7	.6	2.3	22.8		7.5
SW	.9	.5	1.5	13.8		7.3
W	1.6	.4	1.9	7.7		6.5
NW	1.4	.6	.7	5.4		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	.1	.8	7.6		7.0
TOT OBS	135	44	152	1047	1398	6.9
TOT PCT	11.1	3.1	10.9	74.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.9	.0	.3	.6	1.5	.9	.1	.3	.2	.1	4.7	
NE	1.1	.1	.2	.6	.6	.9	.1	.1	.2	.0	2.1	
E	.8	.0	.1	.7	.5	.5	.1	.2	.1	.0	.4	
SE	1.8	.0	.3	1.4	.6	1.1	.4	.1	.2	.0	.4	
S	7.5	.2	.7	6.1	5.2	2.4	.6	.4	.6	.1	2.6	
SW	6.0	.1	.3	3.2	2.4	1.5	.4	.2	.3	.*	2.2	
W	3.1	.3	.3	1.4	1.4	1.5	.4	.2	.3	.1	2.9	
NW	2.1	.1	.4	.6	1.2	1.1	.1	.3	.3	.*	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5	.0	.0	.4	1.6	.9	.3	.0	.1	.1	1.6	
TOT OBS	415	11	36	211	208	152	34	23	32	6	270	1398
TOT PCT	29.7	.8	2.6	15.1	14.9	10.9	2.4	1.6	2.3	.4	19.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	2.6	2.6	2.7	2.7	2.7	2.7	2.7
= OR >5000	2.3	3.3	3.5	3.6	3.7	4.0	4.4	4.4
= OR >3500	4.1	5.6	5.9	6.0	6.2	6.5	6.8	6.8
= OR >2000	8.6	14.5	15.5	15.9	16.3	17.0	17.4	17.4
= OR >1000	10.8	29.9	28.7	29.8	30.7	31.7	32.2	32.2
= OR >600	13.3	31.7	39.7	42.4	43.5	45.3	46.6	46.6
= OR >300	13.4	32.7	41.4	44.6	45.9	47.8	49.2	49.2
= OR >150	13.4	32.9	41.8	45.1	46.5	48.6	50.0	50.0
= OR > 0	13.4	33.0	42.6	47.8	50.1	58.2	76.9	80.4
TOTAL	186	459	592	664	696	809	1068	1117

TOTAL NUMBER OF OBS: 1389

PCT FREQ NM <5/8: 19.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
6.3	5.1	3.8	2.0	1.9	2.0	3.5	3.8	42.3	29.4	1440

JULY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1906-1974AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.7	.2	.3	.1	.0	.0	1.5	
	NO PCP	3.0	1.0	.7	1.7	7.1	5.8	3.2	2.3	.0	4.6	29.2	
	TOT %	3.0	1.0	.7	1.8	7.8	6.0	3.4	2.4	.0	4.6	30.8	
1/2<1	PCP	.0	.1	.1	.1	.2	.1	.0	.0	.0	.0	.6	
	NO PCP	.9	.1	.1	.1	.4	.2	.2	.2	.0	.1	1.8	
	TOT %	.9	.2	.1	.2	.6	.4	.2	.2	.0	.1	2.4	
1<2	PCP	.1	.2	.1	.4	1.6	.9	.1	.0	.0	.0	2.7	
	NO PCP	.2	.1	.1	.2	.5	.7	.5	.3	.0	.0	2.6	
	TOT %	.4	.2	.3	.5	2.1	1.0	.6	.3	.0	.0	5.3	
2<5	PCP	.1	.3	.2	.4	1.4	.5	.1	.2	.0	.2	3.4	
	NO PCP	.6	.6	.4	.6	2.3	1.5	.8	.5	.0	.7	8.0	
	TOT %	.7	.9	.6	1.0	3.7	2.0	.9	.7	.0	.9	11.4	
5<10	PCP	.1	.2	.3	.2	2.0	.9	.2	.1	.0	.8	4.9	
	NO PCP	2.9	1.4	.6	1.0	5.4	3.7	3.2	1.6	.0	.7	20.4	
	TOT %	3.0	1.6	.9	1.3	7.4	4.6	3.4	1.6	.0	1.5	25.3	
10+	PCP	.0	.0	.1	.1	.2	.8	.0	.0	.0	.0	.3	
	NO PCP	4.6	2.2	.7	1.6	3.7	2.7	3.2	3.2	.0	2.6	24.5	
	TOT %	4.6	2.2	.8	1.7	3.8	2.7	3.2	3.2	.0	2.6	24.9	
TOT OBS													
TOT PCT		12.1	6.2	3.4	6.5	25.4	16.5	11.7	8.5	.0	9.7	100.0	1460

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.2	.2	.6	.5	.8	.2	.0	4.8	7.6	
	4-10	1.9	.7	.3	1.2	4.2	3.6	2.3	1.0	.0		15.2	
	11-21	.9	.2	.1	.5	3.0	1.5	.4	.6	.0		7.2	
	22+	.0	.0	.0	.0	.6	.1	.0	.0	.0		.7	
	TOT %	2.9	1.1	.7	1.9	8.3	5.8	3.5	1.8	.0	4.8	30.7	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.1	*	.0	.1	.2	
	4-10	.2	.2	.0	.1	.4	.2	.2	.1	.0		1.4	
	11-21	.2	.0	.1	.4	.2	.2	.0	.0	.0		.7	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	TOT %	.4	.2	.1	.2	.7	.4	.2	.1	.0	.1	2.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.3	.1	.2	.6	.2	.2	.2	.0		2.2	
	11-21	.0	.0	.1	.5	1.1	.4	.3	*	.0		2.3	
	22+	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	TOT %	.4	.3	.2	.7	2.1	.6	.5	.2	.0	.0	5.0	
2<5	0-3	.0	.0	.1	.2	.1	.1	.1	.0	.0	.9	1.4	
	4-10	.2	.3	.4	.4	1.4	1.4	.7	.3	.0		5.3	
	11-21	.3	.4	.2	.6	2.4	.7	.3	.1	.0		4.9	
	22+	.2	.1	.0	*	.3	.0	.0	.0	.0		.7	
	TOT %	.7	1.0	.7	1.2	4.1	2.2	1.1	.4	.0	.9	12.3	
5<10	0-3	.3	*	.0	.2	.5	.1	.1	.1	.0	1.2	2.6	
	4-10	1.1	.3	.6	.6	2.3	1.8	2.0	1.6	.0		10.3	
	11-21	.8	.8	.3	.4	4.0	2.0	1.7	.1	.0		9.9	
	22+	.6	.3	.1	.0	.3	.2	.1	.1	.0		1.7	
	TOT %	2.8	1.6	1.0	1.2	7.1	4.1	3.9	1.8	.0	1.2	24.8	
10+	0-3	.3	.2	.0	*	.4	.1	.5	.1	.0	3.0	4.6	
	4-10	2.3	.7	.4	1.0	1.5	1.3	2.0	1.9	.0		11.1	
	11-21	1.3	1.3	.4	.6	1.9	1.3	.8	.8	.0		8.4	
	22+	.2	.1	.0	.0	.3	*	.1	.1	.0		.8	
	TOT %	4.2	2.3	.7	1.6	4.0	2.7	3.5	2.9	.0	3.0	24.9	
TOT OBS													1208
TOT PCT													
		11.4	6.5	3.4	6.8	26.3	15.7	12.6	7.2	.0	10.0	100.0	

JULY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1966-1974AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	200 399	300 599	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	29.2	.8	2.5	15.6	12.8	11.8	2.0	1.0	2.8	.8	79.3	20.7	397
0600	24.2	.6	3.6	16.1	14.2	10.6	2.8	1.9	2.8	.6	77.2	22.8	360
1200	32.4	1.2	1.2	12.8	16.9	10.2	2.0	2.0	2.3	.3	81.3	18.7	363
1800	34.5	.6	2.8	15.8	15.3	10.8	2.8	1.6	.9	.0	85.4	14.6	316
TOT	423	11	36	214	209	154	34	23	32	6	1142	274	1416
PCT	29.9	.8	2.5	15.1	14.8	10.9	2.4	1.6	2.3	.4	80.6	19.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	31.2	3.9	3.9	9.2	23.9	28.0	414
0600	29.6	2.5	5.2	10.7	27.7	24.4	365
1200	31.9	1.6	5.4	14.9	23.7	22.3	376
1800	32.4	1.5	7.7	11.0	25.0	22.3	336
TOT	466	36	82	170	373	364	1491
PCT	31.3	2.4	5.5	11.4	25.0	24.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
0000	30.2	39.7	58.0	22.4	19.6	388
0600	24.9	37.1	57.4	24.3	18.3	350
1200	32.8	39.3	60.1	24.3	15.7	338
1800	34.8	40.9	61.3	24.9	13.7	313
TOT	424	545	821	332	236	1389
PCT	30.5	39.2	59.1	23.9	17.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.2	.8	.0	5	1.0
55/59	.0	.0	.0	.0	.0	.6	1.6	1.7	20	3.9
50/54	.0	.0	.0	.4	.2	1.2	5.8	23.4	160	31.0
45/49	.0	.0	.0	.4	1.0	.6	5.4	44.4	267	51.7
40/44	.0	.0	.0	.0	.0	.0	.8	11.6	64	12.4
TOTAL	0	0	0	4	6	13	74	419	516	100.0
PCT	.0	.0	.0	.8	1.2	2.5	14.3	81.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.2	.3	.8	.0	.4
.5	.0	.2	.4	.1	.7	1.0	.5	.0	.4
3.6	1.9	.5	2.3	8.4	5.8	3.8	3.5	.0	1.0
5.0	.9	1.8	2.5	18.7	10.1	5.6	4.9	.0	2.3
1.9	.2	.0	.4	4.0	2.9	1.6	.7	.0	.8
11.0	3.0	2.5	5.6	31.2	19.7	12.4	9.6	.0	4.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	65	61	56	50	44	43	41	49.8	417
0600	75	61	57	50	43	43	41	50.0	372
1200	74	57	54	47	42	40	37	47.5	386
1800	75	56	54	47	42	41	36	47.4	337
TOT	75	59	55	48	43	41	36	48.7	1512

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.7	.7	4.8	22.8	71.0	92	145
0600	.0	.7	2.1	2.9	17.1	77.1	93	140
1200	.0	.0	.7	.7	6.0	92.5	95	134
1800	.0	2.0	1.0	1.0	8.9	87.1	94	101
TOT	0	4	6	13	74	423	94	520

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1966-1974

JULY

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	H FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	2	.0	.2
14/16	.0	.0	.0	.2	.0	.1	.1	.1	.1	.1	7	.0	.6
11/13	.0	.0	.0	.2	.0	.3	.4	.2	.0	.0	14	.4	.7
9/10	.0	.0	.0	.0	.3	1.1	.0	.2	.0	.0	19	.3	1.1
7/8	.0	.0	.0	.1	1.0	1.5	.3	.0	.0	.0	35	.9	2.0
6	.0	.0	.0	.5	.9	.7	.1	.0	.0	.0	27	.7	1.3
5	.0	.0	.1	1.3	3.1	1.5	.4	.0	.0	.0	78	1.7	4.6
4	.0	.0	.0	1.3	3.7	1.4	.2	.2	.0	.0	85	2.2	4.7
3	.0	.0	.0	3.3	3.0	.9	.1	.0	.0	.0	89	2.2	5.1
2	.0	.1	.4	5.3	4.6	.7	.0	.0	.0	.0	138	3.4	7.8
1	.0	.0	1.2	6.4	5.0	.7	.1	.0	.0	.0	164	3.8	9.6
0	.0	.0	2.3	10.6	6.3	1.2	.0	.0	.0	.0	253	7.5	13.1
-1	.0	.0	1.9	6.1	2.4	.0	.0	.0	.0	.0	128	4.1	6.4
-2	.1	.1	.7	3.9	1.3	.6	.0	.0	.0	.0	83	2.8	4.0
-3	.0	.1	.3	1.7	.5	.3	.0	.0	.0	.0	36	1.5	1.4
-4	.0	.0	.9	1.5	.2	.0	.0	.0	.0	.0	32	1.6	1.0
-5	.0	.0	.6	.7	.3	.1	.0	.0	.0	.0	21	.8	.9
-6	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	5	.2	.2
-7/-8	.0	.0	.6	.0	.2	.0	.0	.0	.0	.0	9	.3	.4
TOTAL	1		112		409		20		1		1226	425	801
PCT	.1	.2	9.1	43.7	33.4	11.0	1.6	.7	.1	.1	100.0	34.7	65.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.0	.0	.0	.0	2.5	.0	.6	.0	.0	.0	.0	.6
1-2	.3	1.8	.8	.0	.0	.0	2.8	.3	.3	.4	.0	.0	.0	1.0
3-4	.0	.3	.7	.0	.0	.0	1.3	.0	.6	1.3	.1	.0	.0	2.1
5-6	.0	.0	.9	.9	.0	.0	1.8	.0	.0	.4	.3	.0	.0	.7
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.3	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	2.7	.9	.0	.0	8.6	.3	1.6	2.1	.7	.0	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.4	.0	1.4	.1	.0	.0	.0	1.6
1-2	.0	.4	.9	.0	.0	.0	.9	.1	.9	.9	.0	.0	.0	2.0
3-4	.0	.0	.1	.1	.0	.0	.3	.0	.7	.9	.0	.0	.0	1.7
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.9	.1	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.9	.1	.0	.0	2.8	.2	3.1	3.1	.1	.0	.0	6.5

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.5	.5	.0	.0	.0	4.2	.4	3.9	.6	.0	.0	.0	4.9
1-2	.3	2.7	1.8	.0	.0	.0	4.8	.3	3.3	1.9	.0	.0	.0	5.4
3-4	.0	2.5	4.6	.3	.0	.0	7.3	.0	.5	3.1	.0	.0	.0	3.6
5-6	.0	.3	4.9	1.6	.0	.0	6.9	.0	.1	.7	.0	.0	.0	.9
7	.0	.0	2.4	.4	.0	.0	2.8	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.4	.1	.0	.0	.6	.0	.0	.6	.1	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	7.9	15.0	2.8	.0	.0	27.2	.7	7.8	7.7	.2	.0	.0	16.4

	W							NW							TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	2.7	.1	.0	.0	.0	3.1	.2	2.0	.0	.0	.0	.0	2.2	
1-2	.7	3.4	1.4	.0	.0	.0	5.5	.0	1.8	.5	.0	.0	.0	2.3	
3-4	.0	.4	1.5	.0	.0	.0	1.9	.1	.0	.5	.0	.0	.0	.6	
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.1	.0	.0	.3	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.2	
10-11	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	6.5	4.8	.3	.0	.0	12.6	.3	4.0	1.3	.1	.0	.0	5.7	84.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	18.1	16.2	1.5	.0	.0	.0	35.8	085
1-2	2.2	14.6	8.2	.0	.0	.0	25.0	
3-4	.1	5.3	12.7	.0	.0	.0	18.7	
5-6	.0	.4	9.2	2.9	.0	.0	12.6	
7	.0	.0	4.1	.9	.0	.0	5.0	
8-9	.0	.1	1.5	.3	.0	.0	1.9	
10-11	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.1	.0	.3	.3	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.6	36.6	37.5	5.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	18.9	18.7	7.6	1.8	.4	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	519	3
6-7	.0	3.4	5.7	6.0	4.7	2.3	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	224	5
8-9	.0	1.5	3.5	1.8	1.1	.1	1.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	5
10-11	.0	1.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
12-13	.0	.0	.5	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
>13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDEX	7.2	1.2	1.2	1.1	.6	.2	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	2
TOTAL	120	297	292	164	83	31	20	11	8	0	0	0	0	0	0	0	0	0	0	986	4
PCT	12.2	26.1	29.6	16.6	8.4	3.1	2.0	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AUGUST

AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.0	.0	2.3	.0	.0	.0	.0	5.3	.8	.0	20.6	.6	.0	.0	72.6
NE	7.3	1.5	8.1	.0	.0	.0	.0	16.9	.0	.0	14.2	.4	.0	.0	68.5
E	32.9	.0	9.6	.0	.0	.0	.0	42.5	2.4	.0	16.2	1.8	.0	.0	37.1
SE	8.0	.0	17.3	.0	.0	.0	.0	23.3	3.1	.0	32.1	3.1	.0	.0	36.4
S	15.7	.0	7.1	.0	.0	.0	.0	22.8	4.8	.0	23.4	2.2	.0	.0	46.8
SW	7.5	.0	6.6	.0	.0	.0	.0	14.1	.0	.0	22.1	.5	1.9	.0	61.5
W	10.5	.0	6.8	.0	.0	.0	.0	17.3	.0	.0	23.6	.0	.0	.0	59.1
NW	.3	.0	1.4	.0	.0	.0	.0	1.7	.0	.0	14.6	1.4	.0	.0	82.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	45.8	.0	.0	.0	52.1
TOT PCT	8.3	.2	5.9	.0	.0	.0	.0	14.4	1.2	.0	22.5	1.0	.2	.0	60.7
TOT OBS:	577														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	8.8	.0	3.1	.0	.0	.0	.0	11.9	1.0	.0	26.9	3.1	.0	.0	56.3
06009	9.4	.0	3.8	.0	.0	.0	.0	13.1	.8	.0	16.9	.6	.6	.0	68.1
12015	7.6	.0	9.0	.0	.0	.0	.0	16.6	.7	.0	23.4	.0	.0	.0	59.3
18021	6.4	.8	8.0	.0	.0	.0	.0	15.2	1.6	.0	24.8	.8	.0	.0	57.6
TOT PCT TOT OBS:	8.1 590	.2	5.8	.0	.0	.0	.0	14.1	1.2	.0	22.9	1.2	.2	.0	60.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.6	10.5	8.2	1.1	.0	.0	20.3	11.1	20.2	22.3	19.1	37.0	18.6	15.0	21.8	15.0		
NE	.4	4.3	5.0	.6	.0	.0	10.3	12.5	6.1	4.5	9.5	18.5	18.9	2.0	9.3	9.0		
E	.1	3.1	3.3	.2	.0	.0	6.7	11.5	8.0	12.5	10.8	.0	1.7	.0	8.0	4.0		
SE	.3	3.8	2.7	.2	.0	.0	7.0	10.6	7.4	.9	8.6	.0	6.4	8.0	7.4	12.0		
S	.9	5.4	6.7	1.3	.0	.0	14.3	12.3	17.6	15.2	12.2	13.0	13.5	8.0	14.4	18.0		
SW	.4	3.5	4.3	1.1	.0	.0	9.3	12.6	9.3	11.6	5.2	13.0	10.0	20.0	9.6	6.0		
W	1.0	7.1	3.4	.1	.0	.0	11.6	9.0	8.9	23.2	12.6	4.3	11.0	26.0	8.2	14.0		
NW	1.0	7.0	4.4	.1	.0	.0	12.5	9.0	8.5	6.3	15.8	14.1	14.0	9.0	13.8	14.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	8.0						8.0	.0	13.9	3.6	6.3	.0	5.9	12.0	7.4	8.0		
TOT OBS	66	234	199	24	0	0	523	10.2	115	28	111	23	102	25	94	29		
TOT PCT	12.6	44.7	38.0	4.6	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	5.2	12.0	3.0	.1	.0	20.3	11.1	20.6	22.2	17.9	20.4	
NE	1.7	6.0	2.5	.0	.0	10.3	12.5	5.8	11.0	15.6	9.2	
E	1.3	3.9	1.4	.0	.0	6.7	11.5	8.9	9.0	1.4	7.1	
SE	1.9	4.1	1.1	.0	.0	7.0	10.6	6.1	7.1	6.7	8.4	
S	3.9	7.1	3.1	.2	.0	14.3	12.3	17.1	12.3	12.4	15.1	
SW	1.1	6.1	1.8	.0	.0	9.3	12.6	9.8	6.5	12.0	8.8	
W	4.8	5.9	.9	.0	.0	11.6	9.0	11.7	11.2	14.0	9.5	
NW	4.9	7.2	.3	.0	.0	12.5	9.0	8.0	15.5	13.0	13.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.0					8.0	.0	11.9	5.2	7.1	7.6	
TOT OBS	173	274	74	2	0	523	10.2	143	134	127	119	
TOT PCT	33.1	52.4	14.1	.4	.0	100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974AREA 0015 OKHOTSK SEA NE
55.4N 153.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	11.9	4.9	45.5	34.3	3.5	.0	.0	9.6	100.0	143
0600	5.2	3.0	47.8	40.3	3.7	.0	.0	10.2	100.0	134
1200	7.1	6.3	39.4	42.5	4.7	.0	.0	10.4	100.0	127
1800	7.6	4.2	46.2	35.3	6.7	.0	.0	10.4	100.0	119
TOT	42	24	234	199	24	0	0	10.2		523
PCT	8.0	4.6	44.7	38.0	4.6	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.0	4.7	13.2		6.9
NE	2.3	1.2	1.1	5.3		5.6
E	.0	.9	.4	5.5		7.3
SE	.5	.0	.3	7.4		7.4
S	.5	.2	1.5	11.9		7.4
SW	.9	.4	.7	7.5		7.0
W	1.3	.2	1.0	8.1		7.0
NW	.9	1.8	2.9	6.3		6.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.8	1.2	6.6		7.1
TOT OBS	38	32	67	348	485	6.9
TOT PCT	7.8	6.6	13.8	71.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	4.2	.0	.4	3.0	2.8	3.7	.6	.0	.4	.0	5.2	
NE	1.3	.0	.4	1.4	1.2	.7	.2	.0	.1	.4	4.1	
E	1.0	.0	.0	1.6	1.9	1.0	.2	.0	.2	.0	.9	
SE	2.5	.0	.3	1.0	1.4	1.5	.7	.0	.3	.0	.5	
S	3.2	.0	1.2	3.0	1.7	2.4	.8	.2	.7	.0	.9	
SW	7.4	.0	.0	1.3	1.6	2.3	.0	.1	.1	.0	1.7	
W	2.5	.0	.2	1.6	1.2	2.6	.8	.0	.0	.0	1.7	
NW	1.8	.0	.0	1.8	.6	2.2	2.0	.0	.0	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9	.0	.2	1.0	.4	1.9	.2	.0	.2	.4	1.6	
TOT OBS	105	0	13	77	63	88	26	1	9	4	99	485
TOT PCT	21.6	.0	2.7	15.9	13.0	18.1	5.4	.2	1.9	.8	20.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.5	2.7	2.7	2.7	2.7	2.7	2.7
>5000	1.6	2.7	2.9	2.9	2.9	2.9	2.9	2.9
>3500	6.6	7.8	8.2	8.2	8.2	8.2	8.2	8.2
>2000	18.5	23.3	25.7	26.1	26.1	26.1	26.1	26.1
>1000	21.6	31.3	37.2	39.1	39.1	39.1	39.5	39.5
>600	24.3	39.3	49.4	53.5	53.5	54.3	54.9	54.9
>300	24.3	40.1	50.8	55.6	55.6	56.6	57.4	57.4
>150	24.3	40.1	50.8	55.6	55.6	56.6	57.4	57.4
>0	24.3	40.5	51.9	57.4	58.8	59.2	77.2	79.4
TOTAL	118	197	252	279	286	317	375	386

TOTAL NUMBER OF OBS: 486

PCT FREQ NM <5/8: 20.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.4	4.0	4.6	4.2	1.9	2.9	3.8	6.0	46.4	20.7	521

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AUGUST

AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	*	.0	.0	.7	.0	.3	.0	.0	.0	1.2	
	NO PCP	3.2	1.3	.5	1.8	2.4	1.9	1.7	1.7	.0	3.0	17.4	
	TOT %	3.3	1.3	.5	1.8	3.1	1.9	2.1	1.7	.0	3.0	18.6	
1/2<1	PCP	.0	.2	.3	.0	.5	*	.0	.0	.0	.0	1.0	
	NO PCP	.9	.2	.2	*	.3	*	.2	.0	.0	.3	1.6	
	TOT %	.9	.3	.5	*	.7	.1	.2	.0	.0	.3	2.6	
1<2	PCP	.9	*	.8	.6	.5	*	.3	.0	.0	.0	2.6	
	NO PCP	.2	.0	.0	.6	.7	.1	.5	.0	.0	.2	2.3	
	TOT %	.9	*	.8	1.1	1.2	.2	.8	.0	.0	.2	4.9	
2<5	PCP	.3	.7	1.2	.9	1.0	.5	.5	.0	.0	.0	5.0	
	NO PCP	1.2	.5	.5	.5	1.5	.7	.1	.6	.0	.7	6.3	
	TOT %	1.5	1.2	1.7	1.3	2.4	1.2	.6	.6	.0	.7	11.3	
5<10	PCP	.1	.9	.7	.3	.3	.7	.7	.2	.0	.2	4.2	
	NO PCP	4.5	2.8	1.6	.5	1.5	2.6	1.7	2.9	.0	1.7	19.8	
	TOT %	4.6	3.7	2.3	.9	1.8	3.4	2.3	3.1	.0	1.9	24.0	
10+	PCP	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	NO PCP	9.8	4.7	1.4	1.9	4.2	2.5	4.3	7.4	.0	2.3	38.4	
	TOT %	9.9	4.7	1.4	1.9	4.3	2.5	4.3	7.4	.0	2.3	38.7	
TOT OBS													576
TOT PCT		20.3	11.3	7.2	7.0	13.5	9.2	10.3	12.8	.0	8.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.0	.0	.2	.0	.2	.0	.0	3.2	3.8	
	4-10	2.5	.4	.2	1.6	1.6	.6	2.3	1.0	.0		10.0	
	11-21	1.1	.9	.4	.6	1.9	1.0	.3	.9	.0		7.0	
	22+	.0	.0	.0	.0	.4	.1	.0	.0	.0		.4	
	TOT %	3.5	1.5	.6	2.2	4.0	1.6	2.8	1.9	.0	3.2	21.2	
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.4	.6	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.4	.2	.2	.0	.4	.2	.2	.0	.0		1.6	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT %	.4	.2	.4	.0	.8	.2	.2	.0	.0	.4	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.0	.1	.2	.2	.4	.0	.2	.0	.0		1.0	
	11-21	.4	.0	.4	.5	.7	.1	.2	.0	.0		2.2	
	22+	.0	.0	.0	.2	.0	.1	.2	.0	.0		.4	
	TOT %	.4	.1	.6	.9	1.1	.1	.8	.0	.0	.0	3.8	
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.6	.8	
	4-10	1.1	.1	.4	.6	.5	.4	.2	.3	.0		3.4	
	11-21	.5	1.0	1.1	.6	1.2	1.0	.7	.0	.0		6.0	
	22+	.0	.0	.2	.0	.6	.0	.0	.0	.0		.8	
	TOT %	1.6	1.1	1.7	1.2	2.5	1.3	.9	.3	.0	.6	11.0	
5<10	0-3	.3	.1	.2	.1	.2	.2	.0	1.0	.0	1.4	3.4	
	4-10	1.9	1.1	1.5	.4	.7	.8	1.6	1.5	.0		9.4	
	11-21	2.3	1.3	.8	.5	1.2	.8	1.0	.8	.0		8.8	
	22+	.0	.2	.0	.0	.0	1.0	.0	.0	.0		1.2	
	TOT %	4.5	2.9	2.5	1.0	2.1	2.7	2.6	3.3	.0	1.4	22.8	
10+	0-3	.3	.1	.0	.2	.2	.2	.1	.0	.0	2.2	3.2	
	4-10	5.5	3.0	.8	1.0	2.6	1.6	2.5	4.4	.0		21.2	
	11-21	3.6	1.7	.6	.7	1.4	1.0	1.2	2.9	.0		12.8	
	22+	.7	.4	.0	.0	.2	.0	.0	.1	.0		1.4	
	TOT %	10.1	5.1	1.4	1.9	4.3	2.7	3.8	7.3	.0	2.2	38.6	
TOT OBS													500
TOT PCT		20.3	10.8	7.0	7.1	14.6	8.6	11.0	12.7	.0	7.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 ANY HGT	TOTAL OBS
00003	20.1	.0	2.1	19.4	9.7	22.2	5.6	.0	.7	.7	80.6	19.4	144
06009	17.0	.0	3.5	12.1	15.6	19.1	4.4	.0	2.1	.7	76.6	23.4	141
12015	27.1	.0	1.9	10.3	15.9	14.0	3.7	.0	4.7	1.9	79.4	20.6	107
18021	24.5	.0	2.8	21.7	11.3	13.2	4.7	.9	.0	.0	79.2	20.8	106
TOT	108	0	13	79	65	88	26	1	9	4	393	105	498
PCT	21.7	.0	2.6	15.9	13.1	17.7	5.2	.2	1.8	.8	78.9	21.1	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	22.1	4.3	4.3	8.6	17.8	42.9	163
06009	13.7	2.5	5.6	10.6	23.6	44.1	161
12015	20.8	.7	7.4	15.4	24.8	30.9	149
18021	24.2	3.1	1.6	10.2	30.5	30.5	128
TOT	120	16	29	67	143	226	601
PCT	20.0	2.7	4.8	11.1	23.8	37.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	20.7	24.3	47.1	33.6	19.3	140
06009	16.7	20.3	41.3	36.2	22.5	138
12015	27.6	31.4	54.3	27.6	18.1	105
18021	25.2	30.1	54.4	25.2	20.4	103
TOT	107	126	236	152	98	486
PCT	22.0	25.9	48.6	31.3	20.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	1.0	.0	1.0	1.0	.0	3	2.9
60/64	.0	.0	.0	.0	1.0	.0	3.9	2.0	7	6.9
55/59	.0	.0	1.0	.0	1.0	1.0	2.9	28.4	35	34.3
50/54	.0	.0	1.0	2.0	.0	4.9	11.8	36.3	57	55.9
TOT	0	0	2	3	2	7	20	68	102	100.0
PCT	.0	.0	2.0	2.9	2.0	6.9	19.6	66.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	1.7	1.0	.0	.0	.0	.0	.0	.2	.0	.0
60/64	2.7	.0	.7	.2	1.0	.0	1.0	1.2	.0	.0
55/59	9.6	2.9	.0	2.2	5.4	2.5	2.5	5.4	.0	3.9
50/54	3.9	4.2	5.4	6.4	9.1	7.1	6.9	7.1	.0	5.9
TOT	17.9	8.1	6.1	8.6	15.4	9.6	10.3	14.0	.0	9.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	67	63	54	48	45	45	54.4	170
06009	75	68	61	54	48	43	43	54.4	163
12015	74	73	59	52	48	43	41	53.1	159
18021	73	69	58	52	46	43	43	52.1	134
TOT	75	69	61	53	48	43	41	53.6	626

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.7	3.7	11.1	29.6	51.9	88	27
06009	.0	7.7	3.8	3.8	11.5	73.1	89	26
12015	.0	6.9	.0	6.9	17.2	69.0	90	29
18021	.0	.0	.0	4.5	18.2	77.3	93	22
TOT	0	5	2	7	20	70	90	104

AUGUST

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WD FOG
17/19	.0	.0	.2	.0	.2	.0	.2	.2	4	.0	.8
14/16	.0	.0	.0	.0	.0	.2	.2	.2	3	.0	.6
11/13	.0	.0	1.2	.2	.0	.8	.2	.0	12	.4	2.0
9/10	.0	.0	.2	.0	1.0	.2	.0	.0	7	.4	1.0
7/8	.0	.0	.2	1.2	1.4	.6	.0	.0	17	.6	2.8
6	.0	.0	.2	1.0	1.0	.4	.0	.0	13	.6	2.0
5	.0	.0	.8	2.0	1.0	.2	.0	.0	20	1.2	2.8
4	.0	.0	1.2	1.8	2.4	.8	.0	.0	31	2.0	4.2
3	.0	.0	.4	2.6	.8	.2	.0	.0	20	.6	3.4
2	.0	.4	2.8	5.3	2.0	.2	.0	.0	53	1.0	9.7
1	.2	.4	3.4	5.3	1.2	.0	.0	.0	52	2.0	8.5
0	.0	1.4	10.1	6.5	2.0	.6	.2	.0	103	4.1	16.8
-1	.0	.4	8.3	2.0	1.0	.0	.0	.0	58	3.7	8.1
-2	.0	2.0	3.7	2.4	.8	.0	.0	.0	44	1.4	7.5
-3	.0	1.0	2.2	2.0	.0	.0	.0	.0	26	2.6	2.6
-4	.0	.4	.8	1.4	.0	.0	.0	.0	13	.8	1.8
-5	.0	.8	.4	.4	.0	.0	.0	.0	8	.4	1.2
-6	.0	.4	.0	.2	.0	.0	.0	.0	3	.2	.4
-7/-8	.0	.6	.0	.0	.0	.0	.0	.0	3	.2	.4
-9/-10	.0	.4	.0	.0	.2	.0	.0	.0	3	.4	.2
TOTAL	1		179		75		4		493		381
PCT	.2	8.3	36.3	34.5	15.2	4.3	.8	.4	100.0	22.7	77.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	.9	.0	.0	.0	.0	.9
1-2	.0	4.7	.7	.0	.0	.0	5.5	.4	1.7	1.2	.0	.0	.0	3.3
3-4	.0	2.2	2.9	.4	.0	.0	5.5	.0	2.7	.8	.4	.0	.0	3.9
5-6	.0	.7	1.3	.4	.0	.0	2.4	.0	.4	1.6	.0	.0	.0	2.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.8	.4	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.3	5.7	1.3	.0	.0	16.3	.4	5.7	4.5	1.1	.0	.0	11.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.4	.0	.0	.0	1.6	.5	1.8	.0	.0	.0	.0	2.2
1-2	.3	.9	2.5	.0	.0	.0	3.7	.1	1.2	1.3	.0	.0	.0	2.6
3-4	.0	.6	1.9	.0	.0	.0	2.4	.0	.8	.5	.0	.0	.0	1.3
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	5.3	.0	.0	.0	8.3	.6	3.8	3.3	.4	.0	.0	8.0

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	2.0	.3	.0	.0	.0	2.9	.0	.8	.1	.0	.0	.0	.9
1-2	.0	2.9	1.9	.0	.0	.0	4.7	.0	.9	1.2	.0	.0	.0	2.1
3-4	.0	1.1	3.2	.0	.0	.0	4.3	.0	1.2	1.8	.3	.0	.0	3.4
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.9	5.9	.4	.0	.0	12.9	.0	3.0	4.8	.5	.0	.0	8.3

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	1.7	.0	.0	.0	.0	1.7
1-2	.4	1.6	1.2	.0	.0	.0	3.2	.7	2.8	1.9	.0	.0	.0	5.4
3-4	.0	.8	1.2	.3	.0	.0	2.0	.0	.5	3.8	.0	.0	.0	4.3
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.4	.6	.0	.0	.0	.4
7	.0	.3	.6	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	4.5	.3	.0	.0	9.1	.7	5.4	6.2	.2	.0	.0	12.5 87.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	14.1	11.5	.7	.0	.0	.0	26.4	085
1-2	1.9	16.7	11.9	.0	.0	.0	30.5	
3-4	.0	9.7	16.0	1.5	.0	.0	27.1	
5-6	.0	1.5	8.6	.4	.0	.0	10.4	
7	.0	.4	3.0	.7	.0	.0	4.1	
8-9	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.0	39.8	40.1	4.1	.0	.0	100.0	269

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	20.7	19.9	5.9	1.1	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	3
6-7	.0	2.7	4.6	6.7	3.2	.5	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	5
8-9	.0	1.1	1.1	1.1	1.1	.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
10-11	.0	.3	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	14
12-13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDEY	9.9	3.0	4.8	2.7	1.9	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	2
TOTAL	43	103	113	62	30	9	2	5	5	0	0	0	0	0	0	0	0	0	0	372	4
PCT	11.6	27.7	30.4	16.7	8.1	2.4	.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 159.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	.0	2.3	.0	.0	.0	.0	5.5	3.1	.0	3.1	.0	.0	.0	88.3
NE	4.6	.0	.9	.0	.0	.0	.0	5.6	18.9	.0	.0	.0	.0	.0	75.9
E	4.9	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	6.6	.0	.0	88.5
SE	3.7	.0	4.6	.0	.0	.0	.0	8.3	23.1	.0	7.4	.9	.0	.0	60.2
S	8.2	1.6	3.9	.0	.0	.0	.0	13.6	2.7	.0	12.1	1.2	3.9	.0	66.5
SW	7.2	.7	3.3	.0	.0	.0	.0	11.2	.0	.0	11.2	.0	3.9	.0	73.7
W	.0	1.9	5.1	.0	.0	.0	.0	7.0	2.5	.0	7.6	.0	2.5	.0	80.3
NW	4.1	.0	4.1	.0	.0	.0	.0	8.2	.0	.0	.0	.0	.0	.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	88.9
TOT PCT	4.7	.7	3.3	.0	.0	.0	.0	8.7	5.4	.0	6.9	.7	1.8	.0	76.4
TOT OBS:	276														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.5	.0	1.2	.0	.0	.0	.0	4.7	4.7	.0	4.7	.0	.0	.0	85.9
06009	5.9	1.2	2.4	.0	.0	.0	.0	9.4	4.7	.0	9.4	.0	3.5	.0	72.9
12015	4.6	.0	6.2	.0	.0	.0	.0	10.8	4.6	.0	7.7	.0	.0	.0	78.9
18021	3.4	1.7	5.2	.0	.0	.0	.0	10.3	6.9	.0	8.6	2.4	3.4	.0	67.2
TOT PCT	4.4	.7	3.4	.0	.0	.0	.0	8.5	5.1	.0	7.5	.7	1.7	.0	76.5
TOT OBS:	293														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	2.6	6.3	.7	.0	.0	10.6	12.8	9.7	19.4	10.4	14.3	11.5	14.3	6.7	11.1	
NE	.2	4.2	3.9	1.2	.0	.0	9.6	13.8	10.6	13.9	8.0	.0	9.4	.0	10.0	22.2	
E	.2	2.9	1.6	.3	.0	.0	5.1	10.4	1.7	.0	6.1	.0	7.8	.0	7.5	11.1	
SE	.7	3.7	6.0	1.7	.0	.0	12.0	13.3	15.7	11.1	13.7	.0	4.7	28.6	13.9	11.1	
S	1.8	3.7	12.6	3.2	.5	.0	21.7	15.5	20.8	23.3	25.0	50.0	24.0	21.4	9.2	5.6	
SW	1.4	4.2	8.1	2.4	.0	.0	16.0	13.4	16.9	11.1	10.4	21.4	19.3	28.6	14.2	22.2	
W	.5	3.7	9.3	.9	.0	.0	14.4	13.7	12.3	.0	17.5	14.3	14.6	7.1	18.3	16.7	
NW	.1	2.0	4.4	.9	.0	.0	7.4	14.6	7.2	.0	7.1	.0	6.8	.0	17.5	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.2						3.2	.0	5.1	11.1	1.9	.0	2.1	.0	3.9	.0	
TOT OBS	20	60	116	25	1	0	222	13.4	59	9	53	7	48	7	30	9	
TOT PCT	9.0	27.0	52.3	11.3	.5	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	1.8	7.1	1.0	.7	.0	10.6	12.8	11.0	10.8	11.8	7.7
NE	1.6	3.7	4.1	.2	.0	9.6	13.8	11.0	7.1	8.2	12.8
E	1.5	2.8	.8	.0	.0	5.1	10.4	1.5	5.4	6.8	8.3
SE	3.5	5.4	2.0	1.1	.0	12.0	13.3	15.1	12.1	7.7	12.8
S	2.7	8.0	9.6	1.5	.0	21.7	15.5	22.4	27.9	23.6	8.3
SW	2.4	8.4	4.6	.6	.0	16.0	13.4	16.2	11.7	20.5	16.0
W	1.2	8.3	4.8	.0	.0	14.4	13.7	10.7	17.1	13.6	17.9
NW	.7	4.4	1.9	.5	.0	7.4	14.6	6.3	6.3	5.9	13.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2					3.2	.0	5.9	1.7	1.8	2.6
TOT OBS	41	107	64	10	0	222	13.4	68	60	55	39
TOT PCT	18.5	48.2	28.8	4.5	.0	100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+				
0000	5.9	4.4	22.1	51.4	11.8	1.5	.0	13.7	100.0	68	
0600	1.7	.0	36.7	55.0	6.7	.0	.0	12.9	100.0	60	
1200	1.8	10.9	21.8	50.9	14.5	.0	.0	14.0	100.0	55	
1800	2.6	10.3	28.2	46.2	12.8	.0	.0	12.6	100.0	39	
TOT	7	13	60	116	25	1	0	13.4		222	
PCT	3.2	5.9	27.0	52.3	11.3	.5	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.7	4.7	3.9		5.8
NE	.9	.8	2.0	5.0		6.4
E	.4	.8	2.6	2.5		6.2
SE	.1	.1	3.3	6.4		7.3
S	3.5	2.0	2.9	13.9		6.2
SW	2.3	.4	4.0	6.7		6.1
W	3.6	2.9	4.0	4.1		4.8
NW	4.9	.0	2.4	1.9		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.4	2.1	239	5.3
TOT OBS	44	21	63	111		5.8
TOT PCT	18.4	8.8	26.4	46.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.0	.0	1.6	5.4	.8	.3	.0	.0	3.1	
NE	.0	.0	.0	.0	2.0	3.1	.9	.0	.0	.1	2.6	
E	.0	.0	.0	.0	1.5	.6	2.0	.0	.7	.3	1.3	
SE	.5	.0	.4	.0	2.3	4.7	.8	.0	.9	.0	.2	
S	1.9	.4	.3	.4	5.4	6.0	1.6	.0	.4	.0	5.9	
SW	.5	.0	.5	.9	1.9	5.0	.5	.0	.4	.0	3.6	
W	1.7	.0	.8	.7	1.7	2.4	.0	.3	.0	.4	6.5	
NW	.0	.0	.0	.0	.8	3.2	.0	.2	.0	.0	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.8	.0	.8	.0	.0	.0	.0	1.7	
TOT OBS	13	1	5	7	41	75	16	2	6	2	71	239
TOT PCT	5.4	.4	2.1	2.9	17.2	31.4	6.7	.8	2.5	.8	29.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2
= OR >5000	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >3500	7.1	9.9	10.7	10.7	10.7	10.7	10.7	10.7
= OR >2000	26.9	38.3	41.5	41.5	41.5	41.5	41.5	41.5
= OR >1000	37.9	53.0	56.9	57.3	57.3	57.7	57.7	57.7
= OR >600	37.9	54.2	59.7	60.1	60.1	60.5	60.5	60.5
= OR >300	37.9	55.3	61.7	62.1	62.1	62.5	62.5	62.5
= OR >150	37.9	55.3	62.5	62.8	62.8	63.2	63.2	63.2
= OR >0	37.9	55.7	64.0	64.4	64.4	66.0	68.4	68.4
TOTAL	96	141	162	163	163	167	173	173

TOTAL NUMBER OF OBS: 253

PCT FREQ NM <5/8: 31.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	19.4	3.5	5.4	5.0	2.3	5.0	10.4	12.7	35.4	5.0	260

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
	NO PCP	.4	.0	.0	.0	1.4	.8	1.1	.0	.0	.4	4.0	
	TOT %	.4	.0	.0	.0	1.7	.8	1.1	.0	.0	.4	4.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.7	
1<2	PCP	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.5	.8	.2	.0	.0	.0	.0	1.4	
	TOT %	.0	.4	.0	.5	.8	.5	.0	.0	.0	.0	2.2	
2<5	PCP	.0	.0	.0	.5	1.6	.1	.0	.0	.0	.0	2.2	
	NO PCP	.4	.7	.0	.7	.9	.9	1.1	.7	.0	1.1	6.5	
	TOT %	.4	.7	.0	1.2	2.5	1.0	1.1	.7	.0	1.1	8.7	
5<10	PCP	.6	.2	.3	.4	1.0	.9	1.0	.7	.0	.0	5.1	
	NO PCP	1.7	1.3	.9	2.7	2.3	1.9	1.8	.8	.0	.0	13.4	
	TOT %	2.4	1.4	1.2	3.1	3.3	2.8	2.8	1.5	.0	.0	18.5	
10+	PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
	NO PCP	8.5	7.2	4.3	5.1	14.4	8.1	9.2	6.5	.0	1.8	65.2	
	TOT %	8.5	7.2	4.3	5.1	14.6	8.2	9.2	6.5	.0	1.8	65.6	
TOT OBS													276
TOT PCT		11.6	9.6	5.5	9.8	23.3	13.8	14.2	5.8	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.2	1.9	.9	.0	.0	.0	.0	3.2	
	4-10	.0	.0	.0	1.9	1.7	.6	.5	.0	.0	.0	4.7	
	11-21	.5	.0	.0	.0	.2	1.2	.0	.0	.0	.0	1.9	
	22+	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	TOT %	.5	.0	.2	2.1	4.3	2.7	.5	.0	.0	.0	10.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.9	
	11-21	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.6	.3	.5	.0	.0	.0	.0	1.4	
	TOT %	.0	.5	.0	.6	1.0	.7	.5	.0	.0	.0	3.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	11-21	.0	.0	.0	1.4	1.3	.8	.0	.0	.0	.0	3.7	
	22+	.0	.0	.0	.1	.3	.0	.5	.0	.0	.0	.9	
	TOT %	.9	.5	.0	1.5	1.9	.8	.5	.0	.0	.5	6.5	
5<10	0-3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	4-10	.5	.5	.0	.0	.0	.8	.6	.5	.0	.0	2.8	
	11-21	.5	.5	.8	2.4	1.3	2.6	2.6	1.0	.0	.0	11.6	
	22+	.7	.3	.3	.0	.9	.0	.5	.5	.0	.0	3.3	
	TOT %	2.1	1.3	1.2	2.4	2.2	3.4	3.6	2.0	.0	.0	18.1	
10+	0-3	.3	.0	.0	.5	.0	.5	.5	.1	.0	1.9	3.7	
	4-10	1.3	2.9	3.0	2.0	2.1	2.4	1.9	1.6	.0	.0	17.2	
	11-21	5.6	3.6	.8	2.3	8.8	3.6	7.1	3.5	.0	.0	35.3	
	22+	.0	.9	.0	.5	1.3	2.0	.0	.5	.0	.0	5.1	
	TOT %	7.2	7.4	3.8	5.2	12.2	8.5	9.4	5.7	.0	1.9	61.4	
TOT OBS													219
TOT PCT		10.7	9.7	5.2	11.9	22.1	16.0	14.4	7.7	.0	2.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 159.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.3	.0	1.3	2.6	19.2	32.1	7.7	.0	3.8	1.3	69.2	30.8	78
06609	3.9	2.6	.0	2.6	17.1	36.8	5.3	2.6	1.3	1.3	73.7	26.3	76
12615	9.4	.0	7.5	1.9	7.5	22.6	9.4	.0	3.8	.0	62.3	37.7	53
18621	8.3	.0	.0	4.2	18.8	27.1	4.2	.0	.0	.0	62.5	37.5	48
TOT	13	2	5	7	41	78	17	2	6	2	173	82	255
PCT	5.1	.8	2.0	2.7	16.1	30.6	6.7	.8	2.4	.8	67.8	32.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	5.7	1.1	1.1	5.7	17.0	69.3	88
06609	6.7	.0	3.3	11.1	12.2	66.7	90
12615	12.7	1.4	1.4	14.1	21.1	49.3	71
18621	11.5	.0	3.3	6.6	19.7	59.0	61
TOT	27	2	7	29	53	192	310
PCT	8.7	.6	2.3	9.4	17.1	61.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	1.3	3.9	13.0	58.4	28.6	77
06609	3.9	6.6	18.4	56.6	25.0	76
12615	9.6	19.2	23.1	42.3	34.6	52
18621	8.3	8.3	14.6	50.0	35.4	48
TOT	13	22	43	134	76	253
PCT	5.1	8.7	17.0	53.0	30.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	.0	6.1	2	6.1
50/54	.0	.0	3.0	.0	.0	.0	.0	72.7	25	75.8
45/49	.0	.0	.0	3.0	.0	.0	.0	15.2	6	18.2
TOTAL	0	0	1	1	0	0	0	31	33	100.0
PCT	.0	.0	3.0	3.0	.0	.0	.0	93.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0
50/54	18.9	5.3	6.1	11.4	24.2	9.8	.0	.0	.0	.0
45/49	3.0	3.0	3.0	.0	5.3	.8	3.0	.0	.0	.0
TOTAL	22.0	11.4	9.1	11.4	29.5	13.6	3.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	63	62	57	51	48	43	43	50.8	84
06609	61	57	56	51	48	42	42	50.8	89
12615	57	56	55	48	43	41	41	48.5	72
18621	59	58	53	49	41	37	37	47.9	62
TOT	63	61	55	50	43	39	37	49.7	307

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.0	.0	.0	100.0	98	6
06609	.0	7.7	.0	.0	.0	92.3	92	13
12615	.0	25.0	.0	.0	.0	75.0	86	4
18621	.0	.0	.0	.0	.0	100.0	100	10
TOT	0	2	0	0	0	31	96	33

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1968-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	1.1	.0	.0	3	.0	1.1
9/10	.0	.0	.0	.4	.0	.0	.7	3	.0	1.1
7/8	.0	.0	.0	.7	1.1	.0	.0	5	.4	1.5
6	.0	.0	.0	.4	.4	.4	.0	3	.0	1.1
5	.0	.0	.0	.4	1.9	.0	.0	6	.0	2.2
4	.0	.0	.0	1.5	.7	.7	.4	9	.4	3.0
3	.0	.0	.4	4.9	1.5	.0	.0	18	.0	6.7
2	.0	.0	2.2	4.9	2.6	.7	.0	28	1.5	9.0
1	.0	.0	2.6	3.0	3.0	.0	.0	23	.7	7.8
0	.0	.4	6.7	9.7	3.0	.4	.0	54	1.9	18.3
-1	.0	.7	2.2	5.2	1.1	.0	.0	25	.7	8.6
-2	.0	.4	4.9	7.1	.4	.0	.0	34	.4	12.3
-3	.0	.7	2.6	1.5	.0	.0	.0	13	.4	4.5
-4	.7	.7	4.5	3.0	.0	.0	.0	24	.4	8.6
-5	.0	1.1	1.9	.4	.4	.0	.0	10	.4	3.4
-6	.0	.4	.0	.0	.0	.0	.0	1	.4	.0
-7/-8	.0	.7	.0	1.1	.0	.0	.0	5	.4	1.5
-9/-10	.4	.4	.0	.0	.0	.0	.0	2	.0	.7
-11/-13	.0	.0	.7	.0	.0	.0	.0	2	.0	.7
TOTAL	3		77		46		3	268	21	247
PCT	1.1	5.6	28.7	44.0	17.2	2.3	1.1	100.0	7.8	92.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	.7	.0	.0	.0	2.6	.0	1.4	.0	.0	.0	.0	1.4
1-2	.5	.7	3.4	.0	.0	.0	4.6	.0	1.4	.7	.0	.0	.0	2.1
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.2	1.4	.0	.0	.0	1.5
5-6	.0	.7	.0	.0	.0	.0	.7	.0	.7	.7	.2	.0	.0	1.5
7	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.6	7.4	.0	.0	.0	11.1	.0	3.6	3.4	.9	.0	.0	7.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.7	1.4	.0	.0	.0	.0	2.1
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.7	1.4	.0	.0	.0	2.1
3-4	.0	2.6	1.2	.0	.0	.0	3.8	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.5	.0	.0	.5	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.7	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	1.2	.5	.0	.0	5.0	.7	2.1	6.0	.9	.0	.0	9.6

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0015 OKHOTSK SEA NE
55.3N 159.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.7	.0	.0	.0	.0	.7	.7	.9	2.2	.0	.0	.0	.0	3.8
1-2	.0	1.0	2.1	.0	.0	.0	3.1	.0	1.0	1.4	.0	.0	.0	.0	2.4
3-4	.0	.5	6.3	.0	.0	.0	6.8	.0	.9	2.6	.0	.0	.0	.0	3.4
5-6	.0	1.2	1.9	.7	.0	.0	3.8	.0	.9	.9	1.4	.0	.0	.0	3.1
7	.0	.0	3.9	.0	.7	.0	4.6	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.7	1.4	.0	.0	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	14.2	3.8	.7	.0	22.1	.7	3.6	8.4	3.6	.0	.0	.0	16.3

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.7	1.2	1.0	.0	.0	.0	2.9	.0	.9	.2	.0	.0	.0	.0	1.0	
1-2	.0	.7	2.7	.0	.0	.0	3.4	.2	1.4	2.1	.0	.0	.0	.0	3.6	
3-4	.0	.5	2.7	.0	.0	.0	3.3	.0	.9	2.2	.0	.0	.0	.0	3.1	
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.2	.0	.0	.0	.0	.2	
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	1.4	
8-9	.0	.0	.7	.7	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.4	12.3	.7	.0	.0	16.1	.2	3.1	6.0	.0	.0	.0	.0	9.2	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	7.5	4.1	.0	.0	.0	17.1	
1-2	.7	7.5	13.7	.0	.0	.0	21.9	
3-4	.0	5.5	18.5	.0	.0	.0	24.0	
5-6	.0	3.4	6.8	2.7	.0	.0	13.0	
7	.0	.0	11.6	1.4	.7	.0	13.7	
8-9	.0	.0	1.4	4.8	.0	.0	6.2	
10-11	.0	.0	2.1	.7	.0	.0	2.7	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.7	.0	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	24.0	58.9	10.3	.7	.0	100.0	146

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	9.3	17.3	11.8	5.1	3.0	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	4
6-7	.0	.4	3.0	7.2	11.4	2.5	2.5	.4	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	7
8-9	.0	.0	1.3	.8	2.1	1.3	1.7	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
10-11	.0	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
12-13	.0	.0	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	.8	1.3	.8	4.2	1.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
TOTAL	2	26	57	58	91	18	5	7	0	0	0	0	0	0	0	0	0	0	0	237	5
PCT	.8	11.0	24.1	24.5	21.5	7.6	5.5	2.1	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1957-1974

OCTOBER

AREA 0015 OKHOTSK SEA NE
55.4N 153.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	6.5	.0	.0	6.5	2.8	.0	3.7	.0	.0	.0	86.9
NE	3.8	.0	7.6	.0	.0	.0	.0	11.4	.0	.0	.0	.0	.0	.0	88.6
E	18.6	.0	9.3	.0	.0	.0	.0	27.9	.0	.0	9.3	.0	.0	.0	62.8
SE	22.4	.0	21.1	.0	.0	.0	.0	43.4	.0	.0	6.6	.0	.0	.0	50.0
S	18.7	.0	5.3	.0	.0	.0	.0	24.0	4.0	.0	9.3	.0	.0	.0	62.7
SW	16.5	.0	.0	.0	1.2	.0	.0	17.6	7.1	.0	4.7	.0	.0	.0	70.6
W	4.2	.0	.0	.0	4.2	2.4	.0	10.8	4.2	.0	.0	.0	.0	.0	84.9
NW	.0	3.3	.0	.0	7.3	.0	.0	7.3	4.1	.0	.0	.0	.0	.0	88.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	40.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0
TOT PCT	8.0	.5	4.0	.0	4.0	.5	.0	16.5	3.0	.0	3.0	.0	.0	.0	77.5
TOT OBS:	200														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOURLY (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	7.1	.0	5.4	.0	.0	1.8	.0	14.3	1.8	.0	3.6	.0	.0	.0	80.4
0600	9.3	.0	3.7	.0	1.9	.0	.0	14.8	.0	.0	.0	.0	.0	.0	85.2
1200	12.7	.0	1.8	.0	12.7	.0	.0	27.3	3.6	.0	5.5	.0	.0	.0	63.6
1800	.0	2.3	4.5	.0	6.8	.0	.0	11.4	6.8	.0	2.3	.0	.0	.0	79.5
TOT PCT TOT OBS:	7.7 209	.5	3.8	.0	5.3	.5	.0	17.2	2.9	.0	2.9	.0	.0	.0	77.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.2	3.3	6.6	2.1	.0	.0		13.2	14.3	10.8	.0	17.2	25.0	10.2	.0	14.1	23.0	
NE	.6	3.4	3.8	3.3	1.5	.0		12.4	19.6	12.7	.0	10.3	.0	17.3	.0	11.5	6.9	
E	.5	2.7	2.9	.0	.0	.0		6.1	11.6	4.2	.0	3.9	.0	10.7	.0	4.5	18.8	
SE	.5	1.5	6.1	1.6	.1	.0		9.8	15.1	9.4	.0	8.3	25.0	10.7	25.0	9.0	.0	
S	.0	3.1	2.2	3.6	.9	.0		9.7	19.1	12.7	.0	9.3	.0	10.2	.0	8.3	.0	
SW	.0	2.5	6.5	1.6	.0	.0		10.5	16.0	8.5	.0	10.8	6.3	9.7	25.0	14.1	.0	
W	.0	7.1	8.2	5.1	.4	.0		20.8	15.8	22.6	.0	23.5	43.8	13.8	50.0	17.9	23.0	
NW	.1	4.4	9.4	.9	.1	.0		15.0	14.1	16.0	.0	16.7	.0	13.3	.0	15.4	23.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5							2.5	.0	1.9	.0	.0	.0	4.1	.0	5.1	.0	
TOT OBS	11	57	93	37	6	0	204		15.4	53	0	51	4	49	4	39	4	
TOT PCT	5.4	27.9	45.6	18.1	2.9	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.5	6.0	3.6	1.2	.0		13.2	14.3	10.8	17.7	9.4	19.1	
NE	1.1	4.2	2.9	3.7	.5		12.4	19.6	12.7	9.5	16.0	11.0	
E	1.3	3.6	1.2	.0	.0		6.1	11.6	5.2	3.6	9.9	5.8	
SE	1.7	4.8	2.6	.7	.0		9.8	15.1	9.4	9.5	11.8	8.1	
S	1.8	2.2	3.9	1.7	.0		9.7	19.1	12.7	8.6	9.4	7.6	
SW	1.0	3.9	5.5	.1	.0		10.5	16.0	8.5	10.5	10.8	12.8	
W	2.8	10.0	5.6	2.3	.0		20.8	15.8	22.6	23.0	16.3	18.6	
NW	1.5	8.0	5.0	.5	.0		15.0	14.1	16.0	15.5	12.3	16.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.5						2.5	.0	1.9	.0	3.8	4.7	
TOT OBS	33	87	62	21	1	204		15.4	53	55	53	43	
TOT PCT	16.2	42.6	30.4	10.3	.5		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.9	1.9	24.5	50.9	15.1	5.7	.0	16.6	100.0	53
06009	.0	5.5	29.1	49.1	16.4	.0	.0	14.6	100.0	53
12015	3.8	3.8	28.3	34.0	24.5	5.7	.0	16.0	100.0	53
18021	4.7	.0	30.2	48.8	16.3	.0	.0	14.4	100.0	43
TOT	5	6	57	93	37	6	0	15.4		204
PCT	2.5	2.9	27.9	45.6	18.1	2.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	1.3	6.8	5.9		6.5
NE	1.2	.7	4.3	5.6		6.5
E	.6	.6	1.0	3.2		6.6
SE	.0	.6	.7	7.5		7.5
S	.0	.0	2.2	6.4		7.4
SW	.7	.6	4.3	4.9		6.4
W	6.2	3.5	9.2	4.0		4.6
NW	2.9	.9	7.3	3.3		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.6	.6	1.2	173	6.0
TOT OBS	21	15	64	73	173	6.0
TOT PCT	12.1	8.7	37.0	42.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.6	.0	.0	.4	2.3	5.2	2.6	.6	.0	.0	2.9	
.6	.6	.6	.1	1.2	3.8	1.0	.0	.6	.0	3.6	
.6	.0	.0	.6	.0	1.2	.9	.4	.0	.0	1.7	
2.6	.0	.0	1.7	.0	2.5	.7	.1	.0	.0	1.2	
.9	.0	.0	.6	2.9	3.2	.4	.0	.0	.0	.6	
.6	.0	.0	.7	2.5	4.5	1.2	.0	.0	.0	1.3	
.0	.0	.0	.4	1.9	7.7	.0	.0	.4	.0	12.6	
.0	.0	.0	.0	3.2	5.1	1.3	.0	.1	.0	5.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.6	.0	.6	.6	.0	.0	.0	.6	
10	1	1	9	24	38	15	2	2	0	51	173
5.8	.6	.6	5.2	13.9	33.5	8.7	1.2	1.2	.0	29.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >3500	9.5	10.1	10.6	11.2	11.2	11.2	11.2	11.2
= OR >2000	33.0	38.0	43.6	45.3	45.3	45.3	45.3	45.3
= OR >1000	39.7	48.6	56.4	59.2	59.2	59.2	59.2	59.2
= OR >600	41.3	52.0	61.3	64.2	64.2	64.2	64.2	64.2
= OR >300	41.3	52.5	62.0	64.8	64.8	64.8	64.8	64.8
= OR >150	41.3	53.1	62.6	65.4	65.4	65.4	65.4	65.4
= OR >0	41.3	54.7	64.8	69.3	70.4	71.5	71.5	71.5
TOTAL	74	98	116	124	126	128	128	128

TOTAL NUMBER OF OBS: 179

PCT FREQ NM <5/8: 28.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.9	2.0	3.0	5.4	5.0	5.4	12.9	11.9	38.1	5.4	202

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	.0	1.0
	TOT %	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.0	
1<2	PCP	1.0	.5	.5	.0	.0	.0	.5	.5	.0	.0	3.0	
	NO PCP	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.5	
	TOT %	1.0	.5	.5	.1	.4	.0	.5	.5	.0	.0	3.5	
2<5	PCP	.4	.0	.0	1.6	1.4	.3	1.3	.6	.0	.0	5.6	
	NO PCP	1.0	.5	.5	.5	.9	1.6	.5	.0	.0	.0	5.6	
	TOT %	1.4	.5	.5	2.1	2.3	1.9	1.8	.6	.0	.0	11.1	
5<10	PCP	.0	1.0	1.0	2.0	.5	1.0	.0	.0	.0	.5	6.1	
	NO PCP	.4	3.0	.9	.4	1.3	1.6	3.5	2.5	.0	.5	14.1	
	TOT %	.4	4.0	1.9	2.4	1.8	2.7	3.5	2.5	.0	1.0	20.2	
10+	PCP	.0	.0	.0	.5	.0	.0	1.0	.0	.0	.5	2.0	
	NO PCP	10.5	8.1	2.5	3.8	4.3	5.1	14.6	11.2	.0	1.0	61.1	
	TOT %	10.5	8.1	2.5	4.3	4.3	5.1	15.7	11.2	.0	1.5	63.1	
TOT OBS													198
TOT PCT		19.3	13.1	5.4	9.6	9.1	10.1	21.5	15.4	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	11-21	.5	.0	.5	.0	.0	.0	.5	.5	.0	.0	2.1	
	22+	.5	.0	.0	.1	.4	.0	.0	.0	.0	.0	1.0	
	TOT %	1.0	.5	.5	.1	.4	.0	.5	.5	.0	.0	3.6	
2<5	0-3	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.4	.0	.5	.0	.0	.5	.0	.1	.0	.0	1.5	
	11-21	.0	.0	.0	1.0	1.0	1.0	1.0	.5	.0	.0	4.6	
	22+	.5	.5	.0	.6	1.3	.4	.8	.0	.0	.0	4.1	
	TOT %	1.4	.5	.5	2.2	2.3	1.9	1.8	.6	.0	.0	11.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
	4-10	.4	.0	1.4	.3	.9	.6	.8	1.3	.0	.0	3.5	
	11-21	.0	1.0	.5	1.5	.0	1.5	.5	1.0	.0	.0	6.2	
	22+	.0	3.1	.0	.5	.5	.5	1.8	.3	.0	.0	6.7	
	TOT %	.4	4.1	1.9	2.3	1.4	2.7	3.1	2.6	.0	1.0	19.5	
10+	0-3	.8	.6	.5	.0	.0	.0	.0	.1	.0	1.5	3.6	
	4-10	2.7	3.1	.9	1.2	1.5	1.3	6.7	2.7	.0	.0	20.0	
	11-21	6.4	2.7	1.2	2.7	1.3	3.2	6.5	7.8	.0	.0	31.8	
	22+	.8	1.3	.0	.5	2.1	.6	2.2	.8	.0	.0	8.2	
	TOT %	10.6	7.7	2.6	4.4	4.9	5.1	15.4	11.4	.0	1.5	63.6	
TOT OBS													199
TOT PCT		13.5	12.8	5.5	9.6	9.4	10.3	20.8	15.6	.0	2.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $\leq 5/8$ BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH $\leq 5/8$ ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	1.8	.0	1.8	5.4	17.9	32.1	8.9	1.8	1.8	.0	71.4	28.6	56
06009	3.8	.0	.0	3.8	17.0	41.5	7.5	.0	1.9	.0	75.5	24.5	53
12015	12.5	2.5	.0	7.5	7.5	27.5	5.0	2.5	.0	.0	65.0	35.0	40
18021	9.4	.0	.0	3.1	9.4	31.3	15.6	.0	.0	.0	68.8	31.2	32
TOT	11	1	1	9	25	61	16	2	2	0	128	53	181
PCT	6.1	.6	.6	5.0	13.8	33.7	8.8	1.1	1.1	.0	70.7	29.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	.0	.0	.0	8.9	19.6	71.4	56
06009	.0	.0	9.4	7.1	10.7	76.8	56
12015	1.9	3.8	7.5	20.8	20.8	45.3	53
18021	2.3	2.3	4.7	7.0	30.2	53.5	43
TOT	2	3	9	23	41	130	208
PCT	1.0	1.4	4.3	11.1	19.7	62.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH $\leq 5/8$ AND 5+	TOTAL
(GMT)						OBS
00003	1.8	3.6	14.5	58.2	27.3	55
06009	3.8	3.8	17.3	59.6	23.1	52
12015	12.5	15.0	42.5	22.5	35.0	40
18021	9.4	9.4	21.9	46.9	31.3	32
TOT	11	13	41	87	51	179
PCT	6.1	7.3	22.9	48.6	28.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
50/54	.0	.0	.0	.0	.0	.0	2.6	.0	1	2.6
45/49	.0	.0	.0	.0	.0	2.6	7.7	2.6	5	12.8
40/44	.0	.0	.0	.0	5.1	7.7	28.2	7.7	19	48.7
35/39	.0	.0	.0	.0	.0	.0	15.4	17.9	13	33.3
30/34	.0	.0	.0	.0	2.6	.0	.0	.0	1	2.6
TOTAL	0	0	0	0	3	4	21	11	39	100.0
PCT	.0	.0	.0	.0	7.7	10.3	53.8	28.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
45/49	1.9	3.2	.0	.0	.0	5.1	2.6	.0	.0	.0
40/44	5.8	7.1	1.9	2.6	5.1	5.8	14.7	3.2	.0	2.6
35/39	2.6	5.1	4.5	3.2	.0	.0	1.9	16.0	.0	.0
30/34	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0
TOTAL	10.3	17.9	6.4	5.8	5.1	10.9	21.8	19.2	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	59	58	51	42	34	30	30	41.8	57
06009	54	53	50	41	32	25	25	41.6	57
12015	50	49	49	39	32	24	24	40.2	58
18021	48	47	47	40	32	23	23	39.8	45
TOT	59	51	49	41	32	24	23	40.9	217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	.0	12.5	62.5	25.0	85	8
06009	.0	.0	8.3	8.3	66.7	15.7	85	12
12015	.0	.0	11.1	11.1	44.4	33.3	85	9
18021	.0	.0	10.0	10.0	40.0	40.0	87	10
TOT	0	0	3	4	21	11	85	39

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2	.0	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1	.0	.5
6	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	2	.0	1.1
5	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	2	.0	1.1
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
3	.0	.0	.0	.0	.5	1.1	.5	1.1	.0	.0	6	.5	2.7
2	.0	.0	.0	.5	.0	2.1	2.1	.0	.0	.0	9	.0	4.8
1	.0	.0	.5	.0	.0	2.7	1.6	2.1	.0	.0	13	1.1	5.9
0	.0	.0	.0	.0	3.2	5.9	5.3	1.6	.0	.0	31	1.1	15.4
-1	.0	.0	.0	.5	3.7	3.7	1.1	1.1	.0	.0	19	.5	9.6
-2	.0	.0	.0	.0	3.7	2.7	1.6	.0	.0	.0	15	.0	8.0
-3	.0	.0	.0	.5	3.7	3.7	.5	.0	.0	.0	16	.0	8.5
-4	.0	.0	.5	1.1	4.3	2.7	1.1	.5	.0	.0	19	.0	10.1
-5	.0	.0	.0	.5	2.7	2.1	1.1	.0	.0	.0	12	.0	6.4
-6	.0	.0	.0	1.1	3.7	.0	.0	.0	.0	.0	9	.0	4.8
-7/-8	.0	.0	1.1	.5	5.3	.5	.0	.0	.0	.0	14	.0	7.4
-9/-10	.0	.0	.5	2.1	1.1	.0	.0	.0	.0	.0	7	.0	3.7
-11/-13	.0	.0	.5	.5	2.1	.0	.0	.0	.0	.0	6	.0	3.2
-14/-16	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	1	.0	.5
-17/-19	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	1.1
-20/-22	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	2	1	7	15	65	53	29	14	1	1	188	6	182
PCT	1.1	.5	3.7	8.0	34.6	28.2	15.4	7.4	.5	.5	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.2	1.0	1.2	.0	.0	.0	3.4	.7	1.4	.0	.0	.0	.0	2.1
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	.5	1.7	.0	.0	.0	2.2	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.7	.0	.0	.0	1.4	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.5	.7	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	1.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.3	4.1	1.9	.0	.0	10.5	.7	3.4	3.1	2.9	1.4	.0	11.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	1.2	.0	.0	.0	.0	1.9	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	.2	1.4	.0	.0	.0	1.6
3-4	.0	.7	.0	.0	.0	.0	.7	.0	.2	2.1	.0	.0	.0	2.2
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	3.6	.2	.0	.0	3.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.8	1.0	.0	.0	.0	5.5	.0	1.9	7.8	1.6	.0	.0	11.2

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0015 OKHOTSK SEA NE
55.4N 152.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.4	.7	.0	.0	.0	2.1	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.5	.0	.0	1.0	.0	.0	1.4	.2	.0	.0	1.6
7	.0	.5	.0	.7	.0	.0	1.2	.0	.9	.0	.7	.0	.0	1.6
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.4	.7	.0	2.1	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	1.9	4.0	.7	.0	10.3	.0	2.6	2.1	1.0	.0	.0	5.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	3.8	.0	.0	.0	.0	3.8	.2	2.4	.2	.0	.0	.0	2.8	
1-2	.0	2.9	1.9	.0	.0	.0	4.8	.0	2.9	2.2	.0	.0	.0	5.2	
3-4	.0	.7	2.8	.0	.0	.0	3.4	.0	.9	2.4	.0	.0	.0	3.3	
5-6	.0	.0	.7	1.0	.0	.0	1.7	.0	.0	2.1	.2	.0	.0	2.2	
7	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	2.8	.7	.0	.0	3.4	
8-9	.0	.0	.7	1.0	.0	.0	1.7	.0	.0	1.6	.3	.0	.0	1.9	
10-11	.0	.0	.7	.7	.5	.0	1.9	.0	.0	.0	.0	.2	.0	.2	
12	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	8.1	8.1	6.7	.5	.0	23.4	.2	6.2	11.2	1.2	.2	.0	19.0	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	13.8	1.4	.0	.0	.0	20.7	
1-2	.0	13.8	6.2	.0	.0	.0	20.0	
3-4	.0	3.4	11.0	.0	.0	.0	14.5	
5-6	.0	.0	11.0	2.8	.0	.0	13.8	
7	.0	1.4	4.1	3.4	.0	.0	9.0	
8-9	.0	.0	3.4	3.4	.0	.0	6.9	
10-11	.0	.0	.7	2.1	.7	.0	3.4	
12	.0	.0	1.4	2.1	.0	.0	3.4	
13-16	.0	.0	.0	4.8	.7	.0	5.5	
17-19	.0	.7	.0	.0	.7	.0	1.4	
20-22	.0	.0	.0	.7	.7	.0	1.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	33.1	39.3	19.3	2.8	.0	100.0	145

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	11.5	9.5	6.0	5.0	1.5	1.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
6-7	.5	1.0	2.0	3.0	5.5	4.5	2.0	.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
8-9	.0	.5	.5	1.0	.5	.5	3.0	1.5	1.5	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	24	11
10-11	.0	.0	.0	.0	.0	.5	.0	.5	1.5	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	7	15
12-13	.0	.0	1.5	.0	.0	.0	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.0	5.0	3.5	3.0	4.0	1.5	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	4
TOTAL	11	36	34	26	30	17	18	9	10	6	2	0	1	0	0	0	0	0	0	200	6
PCT	9.5	18.0	17.0	13.0	15.0	8.5	9.0	4.5	9.0	3.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1957-1974AREA 0015 OKHOTSK SEA NE
55.4N 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	27.7	.0	.0	27.7	1.8	.0	.0	.0	.0	.0	70.5
NE	.0	.0	4.7	.0	29.4	.0	.0	34.1	4.7	.0	4.7	.0	.0	.0	56.5
E	.0	.0	.0	.0	18.9	.0	.0	18.9	21.6	.0	.0	.0	.0	.0	59.5
SE	10.5	.0	.0	.0	13.2	.0	.0	23.7	2.6	.0	.0	.0	.0	.0	73.7
S	26.8	.0	.0	.0	5.6	.0	.0	32.4	19.7	.0	4.2	.0	.0	.0	43.7
SW	1.6	.0	.0	.0	16.1	.0	.0	17.7	9.7	.0	1.6	.0	.0	.0	71.0
W	.0	2.6	.0	.0	21.9	.0	.0	21.9	12.3	.0	.0	.0	.0	.0	65.8
NW	.0	.0	.0	.0	17.8	.0	.0	17.8	4.2	.0	3.4	.0	.0	.0	74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.2	.5	.5	.0	20.1	.0	.0	23.8	7.9	.0	1.6	.0	.0	.0	66.7
TOT OBS:	189														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.6	.0	1.5	.0	9.2	.0	.0	15.4	9.2	.0	4.6	.0	.0	.0	70.8
06009	1.8	1.8	.0	.0	23.2	.0	.0	25.0	8.9	.0	1.8	.0	.0	.0	64.3
12015	2.3	.0	.0	.0	27.9	.0	.0	30.2	2.3	.0	.0	.0	.0	.0	67.4
18021	2.6	.0	.0	.0	28.9	.0	.0	31.6	7.9	.0	.0	.0	.0	.0	60.5
TOT PCT TOT OBS:	3.0 202	.5	.5	.0	20.8	.0	.0	24.3	7.4	.0	2.0	.0	.0	.0	66.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.7	4.6	14.9	1.7	.6	.0		23.5	14.6	19.1	.0	25.0	.0	30.1	.0	19.6	.0	
NE	.0	3.5	9.2	2.0	.0	.0		10.7	14.9	11.7	.0	10.2	.0	9.6	.0	11.6	.0	
E	.0	1.2	1.7	1.2	1.1	.0		5.2	20.2	4.3	.0	4.1	.0	4.5	.0	9.8	.0	
SE	.0	1.1	2.1	.8	.3	.0		4.3	18.7	7.7	.0	8.7	.0	1.9	.0	2.7	.0	
S	.0	3.7	1.5	2.4	1.7	.0		9.3	20.5	14.9	.0	7.1	.0	5.8	.0	8.9	.0	
SW	.0	2.6	3.7	1.8	.2	.0		8.2	16.9	8.0	.0	8.7	.0	8.3	.0	8.0	.0	
W	.0	2.7	8.8	7.5	.5	.0		19.5	20.3	14.1	.0	20.4	.0	20.5	.0	19.6	.0	
NW	.2	2.6	9.6	4.0	.0	.0		16.3	17.7	17.0	.0	13.8	100.0	11.5	.0	19.6	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.0							3.0	.0	4.3	.0	.0	.0	7.7	.0	.0	.0	
TOT OBS	8	36	78	35	7	0	164		17.0	47	0	49	1	39	0	28	0	
TOT PCT	4.9	22.0	47.6	21.3	4.3	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	4.1	8.4	9.8	1.2	.0		23.5	14.6	19.1	24.5	30.1	19.6	
NE	2.7	2.9	4.4	.6	.0		10.7	14.9	11.7	10.0	9.6	11.6	
E	.0	2.4	1.7	1.1	.0		5.2	20.2	4.3	4.0	4.5	9.8	
SE	.3	2.0	.9	1.1	.0		4.3	18.7	2.7	8.5	1.9	2.7	
S	2.0	2.7	.9	3.0	.6		9.3	20.5	14.9	7.0	5.8	8.9	
SW	.2	4.0	3.0	.9	.2		8.2	16.9	8.0	8.5	8.3	8.0	
W	.9	4.0	13.1	1.1	.5		19.5	20.3	18.1	20.0	20.5	19.6	
NW	.8	5.3	8.8	1.4	.0		16.3	17.7	17.0	17.5	11.5	19.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.0						3.0	.0	4.3	.0	7.7	.0	
TOT OBS	23	52	70	17	2	164		17.0	47	30	39	28	
TOT PCT	14.0	31.7	42.7	10.4	1.2		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.3	2.1	14.9	55.3	19.1	4.3	.0	17.5	100.0	47
0600	.0	.0	18.0	58.0	18.0	6.0	.0	17.9	100.0	50
1200	7.7	2.6	25.6	41.0	23.1	.0	.0	15.1	100.0	39
1800	.0	3.6	35.7	25.0	28.6	7.1	.0	17.4	100.0	28
TOT	5	3	36	78	39	7	0	17.0		164
PCT	3.0	1.8	22.0	47.6	21.3	4.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.2	2.8	5.6	11.5		6.4
NE	.1	.7	3.8	5.6		7.0
E	.0	.0	.0	2.7		8.0
SE	.0	.1	1.5	3.3		7.3
S	.0	.9	2.7	5.8		7.2
SW	.0	.9	3.8	3.3		6.8
W	1.5	3.7	12.3	4.4		5.9
NW	.3	2.1	9.9	4.9		6.1
VAR	.0	.0	.0	.0		.0
CALM	1.2	.6	1.2	.6		4.6
TOT OBS	9	20	69	71	169	6.4
TOT PCT	5.3	11.8	40.8	42.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.0	.0	.0	.0	4.1	9.3	2.2	.0	.4	.0	6.1	
.6	.0	.6	1.2	.9	5.5	.0	.0	.1	.0	1.5	
.0	.0	.0	.4	.0	1.6	.6	.0	.0	.0	.0	
.6	.0	.0	.7	.9	1.3	.6	.0	.6	.0	.1	
.4	.4	1.6	.9	3.3	.0	.0	.0	.0	.0	.9	
.9	.1	.1	.7	.3	1.9	2.4	.0	.0	.0	1.5	
1.0	.0	.0	.4	9.3	3.0	1.2	.0	.0	.0	7.0	
1.8	.0	.0	.6	3.1	5.5	.7	.6	1.8	.0	3.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	2.4	
9	1	4	10	33	55	13	1	5	0	38	169
5.3	.6	2.4	5.9	19.5	32.5	7.7	.5	3.0	.0	22.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.2	2.3	2.9	2.9	2.9	2.9	2.9	2.9
= OR >5000	1.2	2.3	3.5	3.5	3.5	3.5	3.5	3.5
= OR >3500	5.8	8.1	9.9	10.5	10.5	10.5	10.5	10.5
= OR >2000	25.6	31.4	39.0	41.9	43.6	44.2	44.2	44.2
= OR >1000	37.2	45.3	54.7	58.7	62.8	64.0	64.0	64.0
= OR >600	37.2	47.7	59.3	64.0	68.0	69.8	70.3	70.3
= OR >300	37.8	48.3	59.9	64.5	70.3	72.1	72.7	72.7
= OR >150	37.8	48.3	60.5	65.1	70.9	72.7	73.3	73.3
= OR >0	37.8	48.8	61.6	66.0	74.4	76.2	78.5	78.5
TOTAL	65	84	106	117	128	131	135	135

TOTAL NUMBER OF OBS: 172

PCT FREQ NH <5/8: 21.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
1.1	1.1	4.8	6.4	8.0	9.6	11.7	18.6	34.6	180

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.7	.4	.1	.0	.1	.9	.5	.0	.0	3.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	TOT %	.4	.7	.4	.1	.0	.1	.9	1.1	.0	.0	3.8	
1/2<1	PCP	1.5	.1	.0	.0	.0	.5	1.6	.5	.0	.0	4.3	
	NO PCP	.0	.1	.9	.0	1.5	.1	.0	.0	.0	.0	2.7	
	TOT %	1.5	.3	.9	.0	1.5	.7	1.6	.5	.0	.0	7.0	
1<2	PCP	1.5	1.2	.0	.5	.5	.5	.5	1.1	.0	.0	5.9	
	NO PCP	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
	TOT %	1.5	1.2	.0	.5	.9	.7	.5	1.1	.0	.0	6.5	
2<5	PCP	2.3	1.3	.5	.5	2.0	.1	.0	.7	.0	.0	7.5	
	NO PCP	.4	.5	.5	.7	.8	.7	.4	1.3	.0	.5	5.9	
	TOT %	2.7	1.9	1.1	1.2	2.8	.8	.4	2.0	.0	.5	13.4	
5<10	PCP	1.1	.5	.0	.0	.5	.1	.9	.0	.0	.0	3.2	
	NO PCP	3.0	1.1	.0	.0	.0	2.2	1.5	1.5	.0	.0	9.1	
	TOT %	4.0	1.6	.0	.0	.5	2.3	2.4	1.5	.0	.0	12.4	
10+	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	NO PCP	12.2	5.8	2.0	2.6	3.4	3.8	14.4	9.7	.0	2.7	56.5	
	TOT %	12.2	5.8	2.0	2.6	3.4	3.8	14.9	9.7	.0	2.7	57.0	
TOT OBS													186
TOT PCT		22.3	11.4	4.4	4.4	9.1	8.3	20.8	15.9	.0	3.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.5	.8	.0	.0	.0	.0	.0	.6	.0		1.9	
	22+	.0	.0	.5	.2	.0	.2	1.1	.6	.0		2.5	
	TOT %	.5	.8	.5	.2	.0	.2	1.1	1.3	.0	.0	4.4	
1/2<1	0-3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	4-10	1.1	.2	.0	.0	.0	.6	.0	.0	.0	.0	1.9	
	11-21	.0	.0	.0	.0	.0	.0	1.9	.0	.0		1.9	
	22+	.0	.0	.6	.0	1.7	.2	.0	.0	.0		2.5	
	TOT %	1.7	.2	.6	.0	1.7	.8	1.9	.0	.0	.0	6.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	1.3	
	11-21	1.7	.8	.0	.0	.5	.2	.0	1.3	.0		4.4	
	22+	.0	.6	.0	.0	.0	.0	.6	.7	.0		1.3	
	TOT %	1.7	1.4	.0	.0	1.1	.8	.6	1.3	.0	.0	6.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	1.3	.0	.8	.5	.0	.0	.2	.0		3.1	
	11-21	2.0	.9	.6	.2	.5	.0	.0	1.4	.0		5.6	
	22+	.6	.0	.6	.3	1.9	.3	.5	.8	.0		5.0	
	TOT %	3.1	2.2	1.3	1.3	2.8	.3	.5	2.3	.0	.0	13.8	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	.0	.0	.0	.0	.0	.6	.7	.0		1.3	
	11-21	4.2	1.3	.0	.0	.0	2.0	.9	.3	.0		8.8	
	22+	.0	.0	.0	.0	.6	.6	1.3	1.3	.0		3.8	
	TOT %	4.7	1.3	.0	.0	.6	2.7	2.8	1.7	.0	.0	13.8	
10+	0-3	1.1	.0	.0	.0	.0	.0	.0	.2	.0	3.1	4.4	
	4-10	2.7	2.2	1.3	.3	2.7	1.4	2.2	2.3	.0		15.0	
	11-21	6.9	1.6	1.1	2.0	.6	.9	6.3	6.3	.0		23.6	
	22+	1.1	1.4	.0	.0	.0	.8	4.7	1.4	.0		9.4	
	TOT %	11.7	5.2	2.3	2.3	3.3	3.1	13.1	10.2	.0	3.1	54.4	
TOT OBS													160
TOT PCT		23.4	10.9	4.7	3.8	9.5	7.8	20.0	16.7	.0	3.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.6	1.8	1.8	3.6	21.8	30.9	10.9	.0	1.8	.0	76.4	23.6	55
06009	3.6	.0	5.5	7.3	27.3	38.2	3.6	.0	1.8	.0	87.3	12.7	55
12015	5.7	.0	.0	2.9	17.1	28.6	5.7	.0	5.7	.0	65.7	34.3	33
18021	9.4	.0	.0	12.5	6.3	31.3	9.4	3.1	3.1	.0	75.0	25.0	32
TOT	9	1	4	11	35	58	13	1	5	0	137	40	177
PCT	5.1	.6	2.3	6.2	19.8	32.8	7.3	.6	2.8	.0	77.4	22.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	6.3	7.8	10.9	18.8	56.3	64
06009	3.6	9.1	7.3	16.4	5.5	58.2	55
12015	4.7	7.0	7.0	11.6	11.6	58.1	43
18021	8.1	5.4	10.8	13.5	16.2	45.9	37
TOT	7	14	16	26	26	110	199
PCT	3.5	7.0	8.0	13.1	13.1	55.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.8	11.3	26.9	53.8	19.2	52
06009	3.7	16.7	42.6	46.3	11.1	54
12015	5.9	17.6	29.4	41.2	29.4	34
18021	9.4	15.6	40.6	34.4	25.0	32
TOT	9	26	60	78	34	172
PCT	5.2	15.1	34.9	45.3	19.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	.0	33.3	.0	1	33.3
30/34	.0	.0	.0	.0	.0	.0	33.3	33.3	2	66.7
TOTAL	0	0	0	0	0	0	2	1	3	100.0
PCT	.0	.0	.0	.0	.0	.0	66.7	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0
30/34	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0
TOTAL	33.3	.0	33.3	33.3	.0	.0	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	49	40	30	21	18	18	30.5	63
06009	41	40	36	29	23	23	23	29.4	52
12015	40	39	36	28	23	19	19	29.0	41
18021	40	39	38	28	23	23	23	29.2	33
TOT	50	41	38	28	23	18	18	29.6	189

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	50.0	50.0	94	2
06009	.0	.0	.0	.0	100.0	.0	89	1
12015	.0	.0	.0	.0	2	1	92	3
TOT	0	0	0	0	2	1	92	3

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	.0	.0	.0	1.1	.0	2	.0	1.1
3	.0	.0	.0	.0	.0	.6	.6	2	.0	1.1
2	.0	.0	.0	.0	.0	.6	.6	2	.0	1.1
1	.0	.0	.0	.6	2.3	1.1	.0	7	.0	4.0
0	.0	.0	.0	.0	.0	.6	.0	1	.0	.6
-1	.0	.0	.0	.0	1.1	.0	.0	2	.0	1.1
-2	.0	.0	.0	2.3	2.9	.0	.0	9	.0	5.1
-3	.0	.0	.0	.6	1.1	.0	.0	3	.0	1.7
-4	.0	.0	.6	1.7	1.7	.6	.0	8	.0	4.6
-5	.0	.0	2.3	5.7	3.4	.6	.0	21	.6	11.4
-6	.0	.0	5.1	2.9	2.3	.0	.0	18	.0	10.3
-7/-8	.0	.0	13.7	9.7	1.1	.0	.0	43	.6	24.0
-9/-10	.0	1.7	11.4	1.7	.0	.0	.0	26	.6	14.3
-11/-13	.0	5.1	5.1	.0	1.1	.0	.0	20	.0	11.4
-14/-16	.6	.6	1.1	.0	.0	.0	.0	4	.0	2.3
-17/-19	1.7	.6	1.1	.0	.0	.0	.0	6	.6	2.8
TOTAL	4	14	71	44	30	9	3	175	4	171
PCT	2.3	8.0	40.6	25.1	17.1	5.1	1.7	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.7	1.9	.0	.0	.0	5.3	.0	1.9	.2	.0	.0	.0	2.1
1-2	.0	.6	1.5	.0	.0	.0	2.1	.0	1.0	.0	.0	.0	.0	1.0
3-4	.6	.0	9.4	.8	.0	.0	10.7	.0	.0	1.7	.0	.0	.0	1.7
5-6	.0	.0	.8	.6	.0	.0	1.3	.0	.0	1.5	.2	.0	.0	1.7
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	3.2	15.6	2.1	.8	.0	23.9	.0	2.9	5.0	1.0	.0	.0	8.8

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.2	2.3	.0	.0	.0	2.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.8	.0	.8	.0	2.3	.0	1.1	2.5	1.0	.2	.0	4.8

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0015 OKHOTSK SEA NE
53.4N 153.2E

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.8	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.4	.8	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	1.5
10-11	.0	.0	.6	.6	.0	.0	1.1	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.6	.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	1.9	3.1	.6	.0	9.5	.0	3.2	3.1	2.3	.0	.0	8.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	1.0	.2	.0	.0	.0	1.1	
1-2	.0	1.3	.6	.0	.0	.0	1.9	.0	1.7	1.7	.0	.0	.0	3.4	
3-4	.0	.0	2.3	2.1	.0	.0	4.4	.2	.0	3.4	1.0	.0	.0	4.6	
5-6	.0	.0	1.3	.8	.0	.0	2.1	.0	.0	2.3	.0	.0	.0	2.3	
7	.0	.8	4.0	1.5	.0	.0	6.3	.0	.0	.4	1.5	.0	.0	1.9	
8-9	.0	.0	1.3	.8	.0	.0	2.3	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.8	2.7	.0	.0	3.4	.0	.0	.8	1.0	.0	.0	1.7	
12	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.7	10.3	8.6	.0	.0	21.8	.2	2.7	9.5	4.2	.0	.0	16.6	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	10.6	2.3	.0	.0	.0	17.4	
1-2	.0	6.3	6.1	.0	.0	.0	14.4	
3-4	.8	1.5	17.4	3.8	.0	.0	23.5	
5-6	.0	.0	8.3	3.0	.0	.0	11.4	
7	.0	.8	8.3	3.0	.0	.0	12.1	
8-9	.0	.0	3.8	1.5	.0	.0	5.3	
10-11	.0	.0	2.3	5.3	.0	.0	7.6	
12	.0	.0	.0	.8	.8	.0	1.5	
13-16	.8	.0	.0	2.3	.0	.0	3.0	
17-19	.0	.0	.0	1.5	.8	.0	2.3	
20-22	.0	.0	.0	.8	.8	.0	1.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	21.2	48.5	22.0	2.3	.0	100.0	132

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	5.1	9.1	9.1	6.3	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	5
6-7	.0	1.7	6.3	5.7	2.9	2.3	6.3	1.1	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	7
8-9	.0	.0	.0	.6	2.9	2.3	1.7	1.7	2.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	11
10-11	.0	.0	.0	.6	.0	.6	1.1	.6	.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
12-13	.0	.0	.0	.0	.6	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
>13	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2	13
INDET	2.9	2.9	4.0	1.1	3.4	.6	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
TOTAL	6	18	34	31	28	17	19	6	9	4	3	0	0	0	0	0	0	0	0	175	6
PCT	3.4	10.3	19.4	17.7	16.0	9.7	10.9	3.4	5.1	2.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

DECEMBER

AREA 0015 OKHOTSK SEA NE
35.2N 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	.0	.0	.0	2.2	29.7	.0	.0	31.9	2.2	.0	2.9	.0	.0	.0	63.0
NE	.0	.0	.0	.0	14.9	.0	.0	14.9	.0	.0	4.3	.0	.0	.0	80.9
E	.0	.0	.0	.0	21.6	.0	.0	21.6	.0	.0	.0	.0	.0	.0	78.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	30.8	.0	.0	30.8	.0	.0	.0	.0	.0	.0	69.2
SW	.0	.0	.0	.0	34.3	2.9	.0	37.1	.0	.0	.0	.0	.0	.0	62.9
W	.0	.0	.0	.0	42.6	3.0	.0	45.5	.0	4.0	.0	.0	.0	.0	54.5
NW	.0	.0	.0	1.6	28.1	.0	.0	29.7	1.6	.0	.0	.0	.0	.0	68.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	.0	.0	.0	.8	28.3	.8	.0	29.9	.8	.8	1.6	.0	.0	.0	67.7
TOT OBS:	127														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	.0	.0	.0	.0	29.2	2.1	.0	31.3	.0	.0	.0	.0	.0	.0	68.8
06009	.0	.0	.0	3.2	16.1	.0	.0	19.4	.0	.0	3.2	.0	.0	.0	77.4
12015	.0	.0	.0	.0	36.4	.0	.0	36.4	.0	3.0	3.0	.0	.0	.0	60.6
18021	.0	.0	.0	.0	36.4	.0	.0	36.4	4.5	.0	.0	.0	.0	.0	59.1
TOT PCT	.0	.0	.0	.7	29.1	.7	.0	30.6	.7	.7	1.5	.0	.0	.0	67.2
TOT OBS:	134														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	3.3	15.2	3.8	2.5	.0		24.8	18.5	22.5	.0	27.1	.0	31.3	.0	17.5	.0	.0
NE	.0	4.0	8.5	4.0	2.9	.0		19.2	20.7	20.6	.0	12.5	.0	14.3	.0	31.3	.0	.0
E	.0	.7	8.5	.0	.0	.0		9.2	15.5	11.3	.0	4.2	.0	10.7	.0	8.8	.0	.0
SE	.0	1.3	1.8	.0	.0	.0		3.1	9.8	.6	.0	.0	.0	4.5	.0	10.0	.0	.0
S	.0	2.2	.7	.0	.0	.0		2.9	9.0	4.4	.0	3.1	.0	2.7	.0	.0	.0	.0
SW	.0	1.8	4.8	1.1	.0	.0		7.8	15.9	5.6	.0	18.8	.0	3.6	.0	5.0	.0	.0
W	.0	6.3	10.3	1.6	.9	.0		19.0	15.9	19.4	.0	15.6	.0	21.4	.0	18.8	.0	.0
NW	.0	3.6	7.6	1.1	.0	.0		12.3	14.0	15.6	.0	10.4	.0	11.6	.0	8.8	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0
TOT OBS	2	26	64	13	7	0	112		16.5	40	.0	24	.0	28	.0	20	.0	.0
TOT PCT	1.8	23.2	57.1	11.6	6.3	.0		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	.0	.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	12	18
N	1.6	9.8	10.3	3.1	.0		24.8	18.5	22.5	27.1	31.3	17.5
NE	2.2	4.0	9.2	2.0	1.8		19.2	20.7	20.6	12.5	14.3	31.3
E	.7	4.2	4.2	.0	.0		9.2	15.5	11.3	4.2	10.7	8.8
SE	.9	2.2	.0	.0	.0		3.1	9.8	.6	.0	4.5	10.0
S	.9	2.0	.0	.0	.0		2.9	9.0	4.4	3.1	2.7	.0
SW	.0	3.8	4.0	.0	.0		7.8	15.9	5.6	18.8	3.6	5.0
W	1.8	9.8	5.6	.9	.0		19.0	15.9	19.4	15.6	21.4	18.8
NW	2.7	4.2	5.1	.2	.0		12.3	14.0	15.6	10.4	11.6	8.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.0	8.3	.0	.0
TOT OBS	14	45	43	7	3	112		16.5	40	24	28	20
TOT PCT	12.5	40.2	38.4	6.3	2.7		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

AREA 0015 OKHOTSK SEA NE
55.2N 159.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	.0	.0	25.0	57.5	10.0	7.5	.0	17.3	100.0	40
0600Z	8.3	.0	12.5	62.5	8.3	8.3	.0	16.0	100.0	24
1201Z	.0	.0	32.1	50.0	14.3	3.6	.0	19.4	100.0	26
1802Z	.0	.0	20.0	60.0	15.0	5.0	.0	17.1	100.0	20
TOT	2	0	26	64	13	7	0	16.5		112
PCT	1.8	.0	23.2	57.1	11.6	6.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	.0	8.3	14.3		6.7
NE	1.2	1.9	8.6	8.4		6.1
E	2.6	.0	1.4	2.9		5.0
SE	.0	2.1	1.2	.0		3.8
S	.0	.7	1.4	1.0		5.9
SW	.0	.0	4.0	3.3		6.8
W	.0	5.7	6.7	11.0		6.5
NW	2.4	1.0	4.5	1.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.0	1.9		7.6
TOT OBS	9	12	39	45	105	6.2
TOT PCT	8.6	11.4	37.1	42.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	1199	2399	4799	9599	19199	38399	76799	ANY HGT	OBS
3.3	.0	1.9	1.9	5.0	7.1	1.0	.0	.0	.0	3.0	
1.4	.0	.0	1.0	3.3	4.0	3.1	.0	1.0	.0	4.3	
.0	.0	.0	.0	1.0	1.7	.7	.0	.0	1.0	2.6	
.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	2.1	
.0	.0	1.0	.0	.0	.7	.0	.0	.0	.0	1.4	
1.0	.0	.2	.0	.2	3.8	1.0	.0	.0	.0	1.2	
2.9	.0	.7	3.8	3.6	5.7	.0	.0	1.0	.0	5.7	
1.0	.0	.0	1.0	.2	3.3	.0	.0	.0	1.0	3.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	1.9	.0	.0	1.0	.0	.0	
10	0	4	8	14	31	6	0	3	2	27	105
9.5	.0	3.8	7.6	13.3	29.5	5.7	.0	2.9	1.9	25.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >5000	3.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >3500	9.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0
= OR >2000	28.2	33.6	37.3	38.2	38.2	38.2	38.2	38.2
= OR >1000	31.8	40.0	47.3	50.0	50.9	50.9	51.8	51.8
= OR >600	33.6	44.5	51.8	55.5	58.2	58.2	59.1	59.1
= OR >300	34.5	47.3	55.5	60.9	63.6	63.6	65.5	65.5
= OR >150	34.5	47.3	55.5	60.9	63.6	63.6	65.5	65.5
= OR >0	34.5	49.1	59.1	64.5	71.8	71.8	73.6	74.5
TOTAL	38	54	65	71	79	79	81	82

TOTAL NUMBER OF OBS: 110

PCT FREQ NH <5/8: 25.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.8	.0	3.3	9.1	5.8	8.3	8.3	14.9	36.4	8.3	121

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

DECEMBER

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	1.6	
	NO PCP	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.8	.0	.0	.0	.0	.8	.8	.0	.0	2.3	
1/2<1	PCP	2.0	.4	.8	.0	.0	.8	3.1	.8	.0	.0	7.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.0	.4	.8	.0	.0	.8	3.1	.8	.0	.0	7.8	
1<2	PCP	.0	.0	.8	.0	.0	.2	2.7	.2	.0	.0	3.9	
	NO PCP	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.8	.0	.8	.0	.0	.2	2.7	.2	.0	.0	4.7	
2<5	PCP	4.5	2.3	.8	.0	.8	1.6	.8	.2	.0	.0	10.9	
	NO PCP	.6	.0	.0	.2	.6	.0	.0	.2	.0	.0	1.6	
	TOT %	5.1	2.3	.8	.2	1.4	1.6	.8	.4	.0	.0	12.5	
5<10	PCP	1.6	.0	.0	.0	.0	.0	.8	1.6	.0	.8	4.7	
	NO PCP	4.9	2.1	.8	.0	.0	1.0	5.3	1.6	.0	.0	15.6	
	TOT %	6.4	2.1	.8	.0	.0	1.0	6.1	3.1	.0	.8	20.3	
10+	PCP	.6	.0	.0	.0	.0	.0	.8	.2	.0	.0	1.6	
	NO PCP	12.1	12.7	4.9	2.5	1.2	3.3	5.5	7.0	.0	1.6	50.8	
	TOT %	12.7	12.7	4.9	2.5	1.2	3.3	6.3	7.2	.0	1.6	52.3	
TOT OBS													120
TOT PCT		27.0	18.4	8.0	2.7	2.5	6.8	19.7	12.5	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	1.8	
	11-21	.7	.2	.9	.0	.0	.0	1.8	.0	.0	.0	3.6	
	22+	1.6	.2	.0	.0	.0	.9	.0	.9	.0	.0	3.6	
	TOT %	2.2	.4	.9	.0	.0	.9	3.6	.9	.0	.0	8.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.9	.0	.0	.2	2.2	.2	.0	.0	3.6	
	22+	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	
	TOT %	.0	.0	.9	.0	.0	.2	3.1	.2	.0	.0	4.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	1.8	.0	.2	1.6	.0	.0	.0	.0	.0	3.6	
	11-21	3.3	.9	.0	.0	.0	1.8	.9	.2	.0	.0	8.0	
	22+	.7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.9	
	TOT %	4.0	2.7	.9	.2	1.6	1.8	.9	.4	.0	.0	12.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.2	.0	.0	.0	.9	1.8	1.8	.0	.0	5.4	
	11-21	1.8	.0	.9	.0	.0	.0	.9	.9	.0	.0	4.5	
	22+	1.6	2.0	.0	.0	.0	.2	1.6	.0	.0	.0	5.4	
	TOT %	4.0	2.2	.9	.0	.0	1.1	4.2	2.7	.0	.0	15.2	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
	4-10	2.7	2.0	.7	1.1	.7	.9	2.7	1.8	.0	.0	12.5	
	11-21	9.4	7.1	4.9	1.8	.7	2.9	3.6	5.4	.0	.0	35.7	
	22+	2.5	4.7	.0	.0	.0	.0	.0	.0	.0	.0	7.1	
	TOT %	14.5	13.8	5.6	2.9	1.3	3.8	6.3	7.1	.0	1.8	57.1	
TOT OBS													112
TOT PCT		24.8	19.2	9.2	3.1	2.9	7.8	19.0	12.3	.0	1.8	100.0	

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

DECEMBER

AREA 0015 OKHOTSK SEA NE
55.2N 159.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.0	.0	10.0	10.0	15.0	32.5	2.5	.0	2.5	2.5	80.0	20.0	40
06009	.0	.0	10.7	3.6	10.7	32.1	10.7	.0	3.6	.0	71.4	28.6	28
12015	20.0	.0	.0	8.0	12.0	24.0	.0	.0	4.0	4.0	72.0	28.0	25
18021	16.7	.0	.0	5.6	16.7	16.7	11.1	.0	.0	.0	66.7	33.3	18
TOT	10	0	7	8	15	31	6	0	3	2	82	29	111
PCT	9.0	.0	6.3	7.2	13.5	27.9	5.4	.0	2.7	1.8	73.9	26.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	2.0	7.8	5.9	11.8	23.5	49.0	51
06009	6.3	.0	6.3	3.1	28.1	56.3	32
12015	5.7	11.4	.0	17.1	20.0	45.7	35
18021	.0	17.4	8.7	17.4	4.3	52.2	23
TOT	5	12	7	17	29	71	141
PCT	3.5	8.5	5.0	12.1	20.6	50.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.0	17.5	37.5	42.5	20.0	40
06009	.0	14.3	25.0	46.4	28.6	28
12015	20.8	25.0	37.5	37.5	25.0	24
18021	16.7	22.2	38.9	27.8	33.3	18
TOT	10	21	38	44	28	110
PCT	9.1	19.1	34.5	40.0	25.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	.0	.0	100.0	.0	1	100.0
TOTAL	0	0	0	0	0	0	1	0	1	100.0
PCT	.0	.0	.0	.0	.0	.0	100.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0
TOTAL	0	0	0	0	0	0	0	1	0	0
PCT	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	32	31	31	23	12	1	1	23.4	48
06009	39	38	37	27	2	-2	-2	24.0	30
12015	39	38	32	25	6	3	3	23.7	34
18021	39	38	36	23	10	10	10	24.5	22
TOT	39	38	32	25	9	1	-2	23.8	134

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	100.0	.0	87	1
06009	.0	.0	.0	.0	100.0	.0	87	1
12015	.0	.0	.0	.0	100.0	.0	87	1
18021	.0	.0	.0	.0	1	0	87	1
TOT	0	0	0	0	1	0	87	1

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

DECEMBER

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	WD FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1	.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1	.0	1.0
3	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	2	.0	1.9
2	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1	.0	1.0
0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	2	.0	1.9
-1	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	2	.0	1.9
-2	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	3	.0	2.9
-3	.0	.0	.0	.0	.0	.0	1.9	1.0	.0	.0	3	.0	2.9
-4	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	4	.0	3.8
-5	.0	.0	.0	.0	.0	.0	9.6	1.9	.0	.0	12	.0	11.5
-6	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	4	.0	3.8
-7/-8	.0	.0	.0	.0	.0	6.7	5.8	1.0	.0	.0	14	.0	13.5
-9/-10	.0	.0	.0	.0	1.0	7.7	5.8	1.0	.0	.0	16	.0	15.4
-11/-13	.0	.0	.0	.0	2.9	9.6	1.9	1.9	.0	.0	17	.0	16.3
-14/-16	.0	.0	.0	.0	6.7	1.9	.0	.0	.0	.0	9	.0	8.7
-17/-19	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	2	.0	1.9
-20/-22	.0	.0	5.8	1.0	1.0	.0	.0	.0	.0	.0	9	1.0	7.7
-23/-25	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.0
<-30	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.0
TOTAL	1	1	6	2	13	28	32	17	1	3	104	1	103
PCT	1.0	1.0	5.8	1.9	12.5	26.9	30.8	16.3	1.0	2.9	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.3	.3	.0	.0	.0	.7
3-4	.0	.0	10.3	.0	.0	.0	10.3	.0	1.3	2.3	.0	.0	.0	3.7
5-6	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	1.3	1.0	.0	.0	2.3	.0	.0	4.0	3.0	.0	.0	7.0
8-9	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	3.0	.0	.0	3.0
10-11	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	2.7	.0	2.7
12	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	1.3
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	15.3	4.7	2.3	.0	24.7	.0	1.7	9.3	6.0	4.3	.0	21.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	1.3	.0	.0	.0	1.3	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	11.3	.0	.0	.0	11.3	.0	2.0	1.3	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1973

DECEMBER
TABLE 18 (CONT)AREA 0015 OKHOTSK SEA NE
55.2N 159.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	1.0	.0	.0	.0	2.0	.0	.0	.3	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.3	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	2.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	1.0	.0	.0	.0	3.0	.0	.0	6.0	1.7	.0	.0	7.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	2.7
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	3.7	.0	.0	.0	.0	3.7
5-6	.0	1.3	5.0	1.0	.0	.0	7.3	.0	.0	3.3	.0	.0	.0	.0	3.3
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	11.3	1.0	1.3	.0	15.0	.0	2.7	8.3	.0	.0	.0	11.0	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	5.3	1.3	.0	.0	.0	9.3	
1-2	.0	4.0	6.7	.0	.0	.0	10.7	
3-4	.0	1.3	24.0	.0	.0	.0	25.3	
5-6	.0	1.3	14.7	1.3	.0	.0	17.3	
7	.0	.0	10.7	5.3	.0	.0	16.0	
8-9	.0	.0	.0	5.3	.0	.0	5.3	
10-11	.0	.0	5.3	.0	2.7	.0	8.0	
12	.0	.0	.0	.0	1.3	.0	1.3	
13-16	.0	.0	1.3	.0	1.3	.0	2.7	
17-19	.0	.0	.0	1.3	1.3	.0	2.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.3	.0	1.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	12.0	64.0	13.3	8.0	.0	100.0	75

PERIOD: (OVER-ALL) 1957-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	4.5	6.3	6.3	3.6	.9	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	5
6-7	.0	1.8	1.8	8.0	7.1	1.8	2.7	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
8-9	.0	.0	.9	.0	1.8	2.7	4.5	.9	2.7	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	16	11
10-11	.0	.0	1.8	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
12-13	.0	.0	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	3.6	1.8	6.3	2.7	9.8	2.7	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
TOTAL	4	9	20	22	25	9	13	1	6	2	0	0	1	0	0	0	0	0	0	0	112	6
PCT	3.6	8.0	17.9	19.6	22.3	8.0	11.6	.9	5.4	1.8	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

ANNUAL

AREA 0015 OKHOTSK SEA NE
55.3N 152.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZLN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	.2	.6	.2	12.4	.3	.0	14.8	1.9	.0	8.9	.4	.1	.0	73.9
NE	3.1	.2	2.4	*	9.1	.1	*	14.8	3.6	.0	7.7	.2	.7	.2	72.9
E	10.3	.6	3.0	*	12.5	.2	.0	26.4	3.4	.0	7.5	1.0	.4	.0	61.2
SE	9.4	.1	6.1	*	11.2	.1	.1	26.2	4.3	.0	10.2	.5	*	.1	58.7
S	9.0	.3	3.6	*	13.3	.1	.0	25.9	4.4	.0	13.7	.6	.5	.5	54.3
SW	4.0	.1	2.7	*	17.5	.3	.0	24.5	3.0	.0	13.4	.4	.7	.1	57.8
W	2.1	.5	1.4	.1	15.0	.6	.0	19.3	3.4	.3	11.0	.3	.8	.0	65.2
NW	1.1	.3	1.1	.1	14.2	.2	.0	16.5	2.2	.1	9.6	.3	.2	.0	71.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	.1	.9	.0	9.0	.0	.0	10.6	1.8	.0	15.6	.1	.1	.0	71.8
TOT PCT	4.2	.3	2.4	.1	12.5	.2	*	19.5	3.0	.1	11.0	.4	.5	.1	65.5
TOT OBS:	9476														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZLN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.8	.1	2.1	*	10.4	.4	.0	16.7	2.7	.0	12.0	.5	.3	*	67.7
06009	4.6	.4	1.7	.3	9.9	.1	.0	16.4	2.4	.0	10.7	.4	.5	.1	69.4
12015	4.8	.1	2.9	*	16.5	.2	*	24.3	2.2	.4	10.6	.1	.4	.1	61.2
18021	3.5	.7	2.9	*	14.5	.1	*	21.4	4.5	.0	11.1	.6	.7	.3	61.2
TOT PCT	4.2	.3	2.4	.1	12.6	.2	*	19.5	2.9	.1	11.2	.4	.5	.1	65.4
TOT OBS:	9772														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	5.9	8.8	2.3	.5	*		18.6	14.0	16.9	15.1	19.7	15.7	19.2	13.6	17.9	13.6	
NE	.5	4.5	6.2	2.4	.6	*		14.3	14.7	15.3	15.0	12.4	6.1	15.6	3.3	15.6	7.6	
E	.3	2.3	2.8	.5	.2	.0		6.3	13.1	5.8	2.4	6.2	2.1	6.1	1.7	7.0	7.1	
SE	.4	2.4	3.8	.8	.1	*		7.0	13.6	7.4	4.1	7.4	4.3	6.2	7.4	6.8	5.1	
S	.6	4.6	6.0	2.5	.5	.1		14.2	14.8	15.4	14.8	13.9	13.4	13.8	11.1	11.8	11.4	
SW	.4	3.7	4.8	1.3	*	*		9.9	13.5	9.1	12.3	9.9	7.7	9.8	12.5	10.3	6.2	
W	.7	4.6	5.6	2.0	.2	.0		13.2	13.2	13.1	4.7	13.1	11.1	13.2	10.7	13.1	7.9	
NW	.5	4.3	5.8	1.5	.1	.0		12.2	12.9	11.1	4.1	13.6	13.2	11.7	4.2	13.3	5.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.4							4.4	.0	5.8	2.6	3.8	1.3	4.3	2.2	4.2	2.2	
TOT OBS							8909		13.7	1792	630	1742	548	1651	552	1490	504	
TOT PCT	8.9	32.4	43.1	13.3	2.2	.2		100.0		100.0	75.0	100.0	79.0	100.0	66.7	100.0	66.7	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.3	9.0	5.0	1.3	.1			18.6	14.0	17.0	20.1	19.2	16.0	
NE	2.3	5.7	4.8	1.1	.2			14.3	14.7	15.0	12.2	14.7	15.3	
E	1.3	3.0	1.7	.3	*			6.3	13.1	5.8	6.0	6.1	7.4	
SE	1.7	3.3	1.5	.5	*			7.0	13.6	7.2	7.2	6.6	6.9	
S	2.5	6.4	4.0	1.3	.1			14.2	14.8	15.8	14.2	13.9	12.3	
SW	1.8	5.1	2.7	.3	*			9.9	13.5	9.5	10.0	10.3	10.3	
W	2.7	6.0	3.8	.6	.1			13.2	13.2	12.9	13.2	13.6	13.0	
NW	2.2	6.1	3.3	.5	*			12.2	12.9	11.3	13.5	11.4	12.9	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	4.4							4.4	.0	5.5	3.6	4.2	4.0	
TOT OBS						8909			13.7	2422	2290	2203	1994	
TOT PCT	22.1	44.5	26.7	6.0	.7			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

ANNUAL

AREA 0015 OKHOTSK SEA NE
55.3N 153.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	5.5	4.3	31.7	44.0	12.0	2.4	*	13.6	100.0	2422
0600Z	3.6	3.9	31.0	46.3	12.4	2.8	.1	13.9	100.0	2290
1200Z	4.2	4.8	33.1	40.5	13.2	1.7	.4	13.8	100.0	2203
1800Z	4.0	5.3	33.6	40.7	14.6	1.7	.1	13.5	100.0	1994
TOT								13.7		8909
PCT	4.4	4.5	32.4	43.1	13.3	2.2	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.9	5.1	8.3		5.9
NE	2.6	1.1	4.3	5.4		5.8
E	.7	.4	1.3	3.6		6.6
SE	.3	.4	1.3	4.8		6.8
S	1.0	.7	2.2	10.1		6.8
SW	.9	.5	2.5	5.8		6.6
W	2.0	1.9	4.7	5.6		5.9
NW	2.0	1.1	4.4	4.8		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.2	.6	.7	2.4		5.4
TOT OBS					8409	6.1
TOT PCT	13.7	8.6	26.6	51.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.9	*	.3	1.2	2.6	4.5	1.0	.4	.3	.1	6.0	
1.2	.1	.3	.6	1.7	3.5	.8	.3	.4	.1	4.6	
.9	*	.1	.5	1.0	1.2	.6	.1	.1	.1	1.4	
1.3	*	.3	1.0	1.2	1.5	.4	*	.3	*	.9	
2.7	.2	.7	2.4	2.5	2.4	.5	.2	.2	*	2.2	
1.6	*	.2	1.3	1.5	2.4	.6	.1	.1	.1	1.8	
1.6	*	.2	1.1	2.7	3.2	.3	.1	.2	.1	4.6	
1.5	*	.2	.8	2.1	2.8	.8	.1	.2	.1	3.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	*	.1	.3	.4	.8	.1	*	.2	*	2.0	
13.5	.4	2.4	9.3	15.5	22.4	5.2	1.4	2.0	.6	27.4	8409
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	2.2	2.4	2.5	2.5	2.5	2.5	2.5
>5000	2.1	3.2	3.6	3.7	3.7	3.8	3.9	3.9
>3500	3.5	7.6	8.6	8.9	9.0	9.0	9.1	9.1
>2000	17.4	24.6	29.6	30.8	31.2	31.4	31.5	31.5
>1000	22.7	33.9	41.8	44.3	45.7	46.2	46.8	46.8
>600	24.1	38.5	48.8	52.3	54.1	55.2	55.9	55.9
>300	24.3	39.4	50.4	54.4	56.5	57.6	58.5	58.5
>150	24.3	39.5	50.8	54.8	56.9	58.1	58.9	58.9
>0	24.3	40.3	52.9	58.4	62.1	66.2	71.9	72.7

TOTAL NUMBER OF OBS: 8467

PCT FREQ NH <5/8: 27.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.3	3.6	4.8	4.9	4.4	5.1	8.6	10.5	37.4	12.5	9020

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

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AREA 0015 OKHOTSK SEA NE
55.3N 159.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.3	.4	.2	.5	.3	.4	.4	.0	*	2.7	
	NO PCP	1.0	.5	.2	.5	1.9	1.2	.9	.8	.0	.9	7.9	
	TOT %	1.3	.8	.6	.7	2.3	1.4	1.3	1.2	.0	.9	10.6	
1/2<1	PCP	.6	.2	.3	.3	.3	.3	.6	.3	.0	.0	3.0	
	NO PCP	.1	.1	.1	.1	.4	.1	.1	.1	.0	*	1.2	
	TOT %	.8	.4	.4	.3	.8	.4	.7	.4	.0	*	4.2	
1<2	PCP	.6	.5	.4	.3	.7	.4	.7	.5	.0	*	4.1	
	NO PCP	.2	.2	.1	.2	.4	.1	.2	.1	.0	*	1.5	
	TOT %	.8	.7	.5	.5	1.1	.5	.8	.6	.0	.1	5.7	
2<5	PCP	1.3	.8	.4	.6	1.2	.5	.5	.7	.0	.1	6.2	
	NO PCP	1.1	1.0	.4	.7	1.6	.9	.7	.9	.0	.5	7.7	
	TOT %	2.4	1.8	.8	1.3	2.8	1.5	1.2	1.5	.0	.5	13.9	
5<10	PCP	.4	.3	.3	.4	.4	.5	.4	.3	.0	.3	3.3	
	NO PCP	3.8	2.8	1.1	1.1	2.4	2.0	2.7	2.4	.0	.6	19.0	
	TOT %	4.2	3.1	1.3	1.5	2.9	2.5	3.1	2.7	.0	.8	22.2	
10+	PCP	.1	*	*	.1	*	*	.2	.1	.0	*	.6	
	NO PCP	9.2	7.3	2.7	2.4	4.1	3.3	5.9	5.9	.0	2.2	42.8	
	TOT %	9.2	7.3	2.7	2.4	4.1	3.3	6.1	6.0	.0	2.2	43.4	
TOT OBS													9463
TOT PCT		18.7	14.1	6.3	6.8	14.0	9.6	13.4	12.4	.0	4.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.3	.2	.2	.1	.0	.9	1.9	
	4-10	.6	.2	.2	.5	1.0	.6	.6	.4	.0		4.2	
	11-21	.5	.3	.2	.3	1.0	.6	.3	.4	.0		3.6	
	22+	.1	.2	.1	.1	.4	.2	.3	.3	.0		1.7	
	TOT %	1.3	.8	.6	1.0	2.7	1.6	1.4	1.2	.0	.9	11.3	
1/2<1	0-3	.1	*	.0	*	*	*	*	*	.0	*	.2	
	4-10	.2	.1	.1	.1	.1	.2	.1	.0			1.0	
	11-21	.3	.2	.2	.1	.4	.1	.4	.2	.0		1.8	
	22+	.3	.1	.1	.1	.3	.1	.1	.1	.0		1.2	
	TOT %	.8	.4	.3	.3	.8	.4	.7	.4	.0	*	4.2	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	.1	.2	.1	.1	.3	.3	.2	.1	.0		1.4	
	11-21	.5	.3	.3	.2	.5	.2	.5	.5	.0		2.8	
	22+	.2	.2	*	.2	.4	.1	.2	.1	.0		1.3	
	TOT %	.8	.7	.5	.5	1.1	.5	.9	.6	.0	*	5.7	
2<5	0-3	.1	*	*	.1	.1	*	.1	.1	.0	.4	.9	
	4-10	.6	.7	.2	.4	.7	.5	.3	.4	.0		3.9	
	11-21	1.3	.8	.3	.7	1.3	.8	.6	.7	.0		6.5	
	22+	.5	.4	.2	.3	.8	.1	.2	.4	.0		2.9	
	TOT %	2.5	1.9	.8	1.4	2.9	1.5	1.3	1.5	.0	.4	14.2	
5<10	0-3	.2	.1	.1	.1	.1	.1	.1	.2	.0	.6	1.6	
	4-10	1.3	.8	.6	.4	.8	.9	1.1	1.2	.0		7.1	
	11-21	1.8	1.3	.5	.8	1.2	1.2	1.2	1.1	.0		9.0	
	22+	.7	.9	.1	.1	.5	.4	.6	.3	.0		3.8	
	TOT %	4.0	3.1	1.3	1.5	2.7	2.5	3.1	2.8	.0	.6	21.5	
10+	0-3	.5	.3	.1	.1	.1	.1	.2	.1	.0	2.3	3.9	
	4-10	3.1	2.7	1.2	.9	1.7	1.3	2.2	2.2	.0		15.1	
	11-21	4.7	3.4	1.2	1.2	1.8	1.5	2.8	3.0	.0		19.6	
	22+	.9	1.2	.2	.2	.4	.4	.7	.4	.0		4.4	
	TOT %	9.2	7.5	2.7	2.5	4.0	3.3	5.9	5.8	.0	2.3	43.0	
TOT OBS													8606
TOT PCT		18.6	14.3	6.2	7.0	14.2	9.8	13.2	12.3	.0	4.3	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

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TABLE 10

AREA 0015 OKHOTSK SEA NE
55.3N 153.8E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	9.8	.4	3.5	10.2	15.8	23.7	5.4	1.9	2.0	1.0	73.6	26.4	2425
06009	9.7	.5	3.1	8.1	17.3	24.7	5.7	1.4	1.8	.3	72.6	27.4	2298
12015	10.7	.4	1.5	7.9	12.6	19.6	3.7	1.0	2.7	.7	68.7	31.3	2022
18021	10.8	.4	1.5	10.4	14.2	18.6	6.7	1.0	.9	.1	72.5	27.5	1943
TOT													8688
PCT	13.6	.5	2.6	9.2	15.2	22.2	5.2	1.4	1.8	.6	72.2	27.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	10.1	4.4	5.6	12.7	20.6	46.6	2726
06009	9.9	3.5	5.4	12.6	21.4	47.3	2550
12015	12.6	5.0	6.3	16.9	22.4	36.9	2430
18021	12.6	5.0	6.9	14.7	24.8	36.0	2215
TOT							9921
PCT	11.2	4.4	6.0	14.2	22.1	42.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	10.1	17.9	38.1	37.3	24.6	2371
06009	9.9	17.4	36.9	38.1	24.9	2245
12015	19.1	25.4	43.5	28.5	28.1	1959
18021	19.0	25.3	45.6	28.6	25.8	1892
TOT						8467
PCT	13.8	20.9	40.6	33.9	25.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
65/69	.0	.0	.0	.1	.0	.1	.1	.0	.2	
60/64	.0	.0	.0	.0	.1	.0	.4	.2	.7	
55/59	.0	.0	.1	.0	.1	.2	.4	3.0	3.8	
50/54	.0	.0	.3	.2	.0	.6	2.1	11.2	14.4	
45/49	.0	.0	.0	.3	.1	.5	2.1	7.6	10.6	
40/44	.0	.0	.0	.0	.4	.8	3.2	4.3	8.8	
35/39	.0	.0	.0	.0	.2	.6	5.2	5.2	11.1	
30/34	.0	.0	.0	.0	.5	.3	13.5	10.5	24.9	
25/29	.0	.0	.0	.0	.1	8.7	.7	2.8	12.3	
20/24	.0	.3	.3	.8	.0	.0	.3	3.2	4.7	
15/19	.0	.8	1.0	.5	.3	.8	.6	3.2	7.2	
10/14	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	
TOTAL									2688	100.0
PCT	.0	1.0	1.7	2.0	1.9	12.6	28.5	52.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.2	.0	.1	.0	.1	.0	.1	.1	.0	.0
55/59	.9	.5	.0	.2	.5	.5	.3	.5	.0	.4
50/54	2.3	1.2	1.0	1.7	3.5	2.0	1.0	1.0	.0	.6
45/49	1.2	.8	.8	.7	2.9	1.7	1.2	.9	.0	.4
40/44	1.4	.8	.2	.7	1.8	1.1	1.7	.8	.0	.4
35/39	1.3	1.0	3.5	.8	1.3	.3	.5	2.0	.0	.4
30/34	5.4	.7	.5	3.6	2.5	1.0	1.0	9.5	.0	.6
25/29	1.1	.2	.5	.3	.6	8.7	.6	.3	.0	.1
20/24	.7	.9	.4	1.1	.2	.3	.6	.0	.0	.6
15/19	2.4	2.5	.3	.0	.2	.1	.0	1.8	.0	.0
10/14	.4	.1	.0	.0	.0	.0	.0	.6	.0	.0
TOTAL	17.5	8.9	7.3	9.1	13.5	15.7	7.0	17.5	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	68	49	44	35	29	20	-15	38.3	2737
06009	75	51	45	36	29	21	-11	38.8	2564
12015	74	49	42	33	24	19	-10	36.6	2486
18021	75	49	42	33	29	20	-8	36.3	2254
TOT	75	48	43	34	24	19	-15	37.5	10041

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	5.8	2.5	13.2	15.9	46.0	90	704		
06009	.0	6.1	1.4	12.2	29.6	90.6	91	707		
12015	.0	4.1	2.5	5.1	12.1	51.2	93	685		
18021	.0	2.9	1.1	3.4	20.0	55.8	93	627		
TOT	0	32	45	154	568	1924	92	2723		

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

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AREA 0015 OKHOTSK SEA NE
55.3N 153.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.0	.1	.0	.0	66	.1	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	63	.1	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.1	.3	.4	.1	.1	.0	.0	139	.2	1.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.2	.2	.1	.0	.0	.0	88	.1	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.2	.3	.5	.5	.1	.0	.0	.0	235	.3	2.1
4	.0	.0	.0	.0	.0	.0	.1	.8	.5	.2	.5	.6	.3	.3	.1	.0	.0	.0	395	.6	2.9
3	.0	.3	.0	.0	.0	.0	.1	.6	.3	.3	.7	.9	.4	.1	.0	.0	.0	.0	329	.4	3.0
2	.0	.0	.0	.0	.0	.0	.7	1.8	.5	.6	1.5	1.1	.7	.2	.0	.0	.0	.0	74	1.0	6.2
1	.0	.0	.0	.0	.0	.0	1.0	1.2	.4	.9	1.3	1.2	.7	.1	.0	.0	.0	.0	655	1.1	5.8
0	.0	.0	.0	.0	.0	.0	.3	2.5	1.2	.7	1.4	2.4	2.4	.9	.2	.1	.0	.0	1128	2.1	9.9
-1	.0	.0	.0	.0	.0	.0	.3	1.3	.6	.4	1.0	1.0	1.4	.3	.1	.0	.0	.0	553	1.1	5.3
-2	.0	.0	.0	.0	.0	.0	.8	2.0	.6	.5	.7	1.1	1.0	.3	.1	.0	.0	.0	571	1.0	6.0
-3	.0	.0	.0	.0	.0	.0	1.2	.8	.3	.5	.5	.5	.4	.2	.0	.0	.0	.0	277	.8	3.6
-4	.0	.0	.0	.0	.0	.0	1.1	1.1	.4	.6	.4	.6	.4	.1	.0	.0	.0	.0	276	.5	4.2
-5	.0	.0	.0	.0	.0	.3	2.0	.9	.4	.5	.3	.4	.1	.1	.0	.0	.0	.0	225	.4	4.7
-6	.0	.0	.0	.0	.0	.1	1.2	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	90	.2	2.3
-7/-8	.0	.0	.0	.0	.0	.1	1.7	2.4	1.0	.2	.5	.2	.1	.1	.0	.0	.0	.0	174	.2	6.0
-9/-10	.0	.0	.0	.0	.6	2.1	1.7	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	127	.1	5.0
-11/-13	.0	.0	.0	.2	1.8	.2	.1	.7	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	129	.0	5.4
-14/-16	.0	.0	.1	1.2	1.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	.1	3.8
-17/-19	.0	.0	.7	1.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	.2	2.5
-20/-22	.0	.2	1.7	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	.2	2.6
-23/-25	.0	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	.1	1.3
-26/-30	.6	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	.2	1.5
<-30	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	.2	1.1
TOTAL																			6698		
PCT	1.8	1.9	3.2	3.3	5.0	7.2	11.9	12.4	9.0	7.3	7.3	11.0	10.9	5.5	1.7	.5	.1	*	100.0	11.3	88.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.4	.0	.0	.0	3.0	<1	.2	1.7	.1	.0	.0	.0	2.0
1-2	.1	1.8	1.8	.0	.0	.0	3.8	1-2	.1	1.3	1.2	.0	.0	.0	2.6
3-4	.1	.9	3.7	.4	.0	.0	5.1	3-4	.0	.6	1.8	.3	.0	.0	2.8
5-6	.0	.3	1.2	.3	.0	.0	2.2	5-6	.0	.2	1.6	.2	.0	.0	2.0
7	.0	.1	.9	.4	.1	.0	1.4	7	.0	.0	.8	.6	.1	.0	1.5
8-9	.0	.0	.2	.5	.1	.0	.9	8-9	.0	.0	.3	.5	.1	.0	.9
10-11	.0	.0	.1	.1	.0	.0	.2	10-11	.0	.0	.2	.6	.2	.0	1.0
12	.0	.0	.0	.0	.1	.0	.1	12	.0	.0	.0	.1	.0	.0	.2
13-16	.1	.0	.0	.1	.1	.0	.3	13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.2	.0	.0	.3	17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1	20-22	.0	.0	.0	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.2	8.4	2.3	.5	.0	17.2	TOT PCT	.3	3.9	6.0	2.6	.8	.0	13.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.2	.0	.0	.0	1.4	<1	.3	1.1	.0	.0	.0	.0	1.4
1-2	.0	.9	.6	.0	.0	.0	1.6	1-2	.1	.8	1.2	.0	.0	.0	2.1
3-4	.0	.4	.9	.1	.0	.0	1.4	3-4	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	.0	.3	.1	.0	.0	.5	5-6	.0	.1	.9	.2	.0	.0	1.2
7	.0	.0	.3	.2	.0	.0	.6	7	.0	.0	.4	.2	.1	.0	.7
8-9	.0	.0	.0	.0	.1	.0	.1	8-9	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.2	10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.1	.0	.1	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	2.7	.5	.1	.0	5.9	TOT PCT	.3	2.4	3.8	.7	.2	.0	7.5

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0015 OKHOTSK SEA NE
55.3N 153.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	1.6	.2	.0	.0	.0	2.1	.2	1.7	.3	.0	.0	.0	.0	2.2
1-2	.1	1.7	1.2	.0	.0	.0	2.9	.1	1.0	.9	.0	.0	.0	.0	2.0
3-4	.0	.8	2.0	.4	.0	.0	3.2	.0	.7	1.4	.1	.0	.0	.0	2.3
5-6	.0	.2	1.3	.9	.0	.0	2.4	.0	.2	.9	.4	.0	.0	.0	1.4
7	.0	.0	.9	.4	.1	.0	1.3	.0	.1	.4	.3	.0	.0	.0	.7
8-9	.0	.0	.2	.4	.1	.0	.7	.0	.0	.2	.3	.0	.0	.0	.5
10-11	.0	.0	.2	.2	.1	.0	.5	.0	.0	.3	.2	.0	.0	.0	.5
12	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.1	.0	.0	.0	.2
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.1	.1	.0	.0	.0	.2
17-19	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	6.0	2.9	.6	.1	14.4	.2	3.6	4.6	1.4	.0	.1	10.0	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	1.7	.2	.0	.0	.0	2.2	.1	2.0	.2	.0	.0	.0	.0	2.3
1-2	.2	1.3	1.4	.0	.0	.0	2.9	.1	1.7	1.8	.0	.0	.0	.0	3.6
3-4	.0	.3	1.6	.4	.0	.0	2.2	.0	.6	2.5	.1	.0	.0	.0	3.2
5-6	.0	.2	1.3	.4	.0	.0	2.0	.0	.1	1.3	.2	.0	.0	.0	1.6
7	.0	.1	.7	.5	.0	.0	1.3	.0	.0	.5	.4	.0	.0	.0	.9
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.4	.4	.0	.0	.8	.0	.0	.1	.2	.0	.0	.0	.3
12	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	6.1	2.4	.2	.0	12.9	.2	4.4	6.7	1.0	.1	.0	12.4	93.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	12.7	1.7	.0	.0	.0	22.5	
1-2	.7	10.7	10.2	.0	.0	.0	21.6	
3-4	.2	4.8	15.0	1.8	.0	.0	21.7	
5-6	.0	1.3	8.8	2.9	.2	.0	13.3	
7	.0	.3	5.0	2.9	.3	.0	8.5	
8-9	.0	.0	1.7	2.3	.3	.0	4.4	
10-11	.0	.0	1.4	1.7	.4	.0	3.5	
12	.0	.0	.3	.6	.3	.0	1.2	
13-16	.1	.0	.2	1.0	.4	.0	1.6	
17-19	.0	.1	.0	.5	.3	.1	.9	
20-22	.0	.0	.0	.1	.2	.1	.4	
23-25	.0	.0	.0	.0	.1	.1	.1	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	29.9	44.3	13.8	2.6	.2	100.0	3795

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	13.0	13.4	7.3	3.7	1.6	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2683	3
6-7	.1	1.7	4.3	5.4	4.1	2.5	2.2	.5	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1133	6
8-9	.0	.4	1.1	1.2	1.2	1.0	1.3	.7	.9	.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	430	7
10-11	.0	.5	.2	.5	.2	.2	.3	.2	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	122	9
12-13	.0	.0	.6	.1	.1	.2	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	50	7
>13	.0	.0	.0	.1	.2	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	22	10
INDEX	7.8	2.5	2.7	2.2	3.0	.9	.8	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	776	3
TOTAL PCT	12.2	18.1	22.3	16.6	12.4	6.4	5.4	1.9	2.6	1.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	3216	4

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

TABLE 20

AREA 0015 UKHOTSK SEA NE
55.3N 153.0E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
95+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	4	.1
63/64	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	2	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0
59/60	.0	.0	.0	.0	.0	.0	.2	4.3	.3	.0	.0	.0	27	.4
57/58	.0	.0	.0	.0	.0	.0	.9	7.3	2.7	.0	.0	.0	59	.8
55/56	.0	.0	.0	.0	.0	.2	1.6	9.9	1.4	.5	.0	.0	80	1.1
53/54	.0	.0	.0	.0	.0	.1	2.6	22.1	14.3	.5	.0	.0	196	2.8
51/52	.0	.0	.0	.0	.0	.1	7.2	27.2	25.6	2.6	.0	.0	318	4.5
49/50	.0	.0	.0	.0	.0	1.6	18.2	19.5	21.2	9.2	.0	.0	416	5.9
47/48	.0	.0	.0	.1	.1	5.0	25.7	5.4	16.7	6.7	.0	.0	481	6.9
45/46	.4	.0	.0	.3	.1	25.4	27.3	4.3	13.7	20.5	1.1	.9	758	10.8
43/44	.4	.0	.0	.1	.3	24.7	11.2	.8	3.1	23.6	1.1	.9	500	7.1
41/42	2.9	.9	.0	.1	1.1	24.2	3.8	.6	.7	13.8	4.0	2.8	399	5.7
39/40	1.2	1.9	.8	.4	2.4	9.6	.2	.7	.3	16.4	16.4	4.7	233	3.3
37/38	2.5	2.8	1.6	1.4	8.4	6.4	.5	.4	.0	2.6	22.0	3.8	284	4.1
35/36	7.4	19.8	8.3	7.2	15.8	1.7	.1	.0	.0	1.5	28.2	17.0	480	6.9
33/34	28.4	14.6	9.5	19.3	33.0	.6	.3	.0	.0	.5	24.3	26.4	895	12.8
31/32	28.8	27.8	28.2	42.5	31.0	.3	.1	.0	.0	1.5	2.3	28.3	1157	16.5
29/30	23.0	31.1	48.4	22.6	7.0	.1	.0	.0	.0	.6	14.2	.0	612	8.7
27/28	4.9	.9	3.2	6.1	.7	.0	.0	.0	.0	.0	.9	.0	101	1.4
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	243	212	252	1111	1433	1164	1284	534	793	195	177	106	7004	100.0
MEAN	32.4	32.4	31.2	31.8	33.6	42.7	47.2	52.2	49.8	43.6	36.5	33.5	38.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	990	1005		1005		1002		1005	307
FEB	1006	1008	1004	1011	1005	998	1005	1013	1005	313
MAR	1008	1009	1008		1007		1008		1008	334
APR	1011	1010	1010	1010	1011	1010	1010	1010	1010	1831
MAY	1011	1011	1011	1011	1011	1011	1010	1012	1011	2751
JUN	1012	1011	1012	1010	1012	1012	1012	1011	1012	1536
JUL	1010	1009	1010	1009	1010	1008	1010	1009	1010	1523
AUG	1010	1009	1010	1008	1011	1008	1011	1007	1010	592
SEP	1013	1013	1012	1013	1013	1010	1014	1010	1013	301
OCT	1010		1012	1014	1010	1009	1009	1015	1010	215
NOV	1008		1005	996	1007		1009		1007	196
DEC	1001		1001	1000			1003		1001	127
ANN	1009	1008	1008	1009	1009	1008	1009	1011	1010	10026
OBS	2043	696	1954	618	1842	632	1667	574		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	976	978	988	997	1005	1013	1022	1025	1027
FEB	966	976	983	997	1005	1014	1024	1029	1033
MAR	975	976	988	1002	1009	1015	1023	1029	1031
APR	964	983	991	1003	1011	1019	1026	1032	1040
MAY	974	983	995	1005	1012	1018	1026	1031	1035
JUN	990	992	1000	1007	1011	1017	1024	1032	1034
JUL	982	993	1000	1007	1010	1013	1019	1025	1031
AUG	984	987	996	1006	1011	1015	1020	1026	1030
SEP	978	987	997	1007	1012	1020	1030	1035	1038
OCT	977	988	992	1003	1011	1017	1025	1035	1036
NOV	967	975	991	1001	1007	1012	1026	1030	1032
DEC	963	970	982	993	1001	1009	1022	1032	1033

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974

JANUARY

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	.0	.0	22.1	1.4	.0	23.5	3.2	.0	2.5	.0	.0	.0	70.8
NE	.0	.0	.0	.0	5.8	.0	.0	5.8	1.9	.0	3.3	.0	1.0	.0	88.6
E	2.6	.0	.0	.0	14.4	.0	.0	17.0	.0	.0	16.7	.0	.0	.0	66.3
SE	.4	.0	.0	.0	18.0	.0	.0	18.4	.0	.0	13.4	.0	.4	.0	67.8
S	.0	.0	.0	.0	27.7	.0	.0	27.7	.0	.0	6.2	.0	2.3	.0	63.8
SW	.0	.0	.0	.0	16.4	.0	.0	16.4	.0	.0	.0	.0	.0	.0	83.6
W	.0	.0	.0	.0	46.2	.0	.0	46.2	5.8	.0	1.4	.0	.0	.0	46.6
NW	.0	.0	.0	.0	40.4	.0	.0	40.4	1.7	.0	3.4	.0	.0	.0	54.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	5.7	.0	.0	5.7	2.9	.0	5.7	.0	.0	.0	85.7
TOT PCT	.3	.0	.0	.0	21.6	.3	.0	22.3	1.9	.0	5.8	.0	.3	.0	69.6
TOT OBS:	582														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.0	.0	.0	.0	21.1	.0	.0	21.1	2.1	.0	9.3	.0	.0	.0	67.5
06009	.0	.0	.0	.0	20.8	.0	.0	21.7	.9	.0	.9	.0	.0	.0	76.4
12015	.6	.0	.0	.0	22.4	.0	.0	23.0	3.0	.0	6.1	.0	1.2	.0	66.7
18021	.9	.0	.0	.0	21.1	.9	.0	22.9	1.8	.0	3.7	.0	.0	.0	71.6
TOT PCT	.3	.0	.0	.0	21.4	.3	.0	22.0	2.1	.0	6.0	.0	.3	.0	69.5
TOT OBS:	617														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	5.4	13.5	4.3	.5	.2		24.4	16.3		25.4	.0	24.2	87.5	23.0	58.3	21.3	87.5
NE	1.1	7.5	7.6	1.5	.0	.0		17.7	12.1		18.4	.0	14.3	.0	20.9	33.3	15.5	.0
E	.4	8.3	2.4	.1	.2	.0		11.3	9.6		9.3	.0	11.7	.0	14.5	.0	11.5	.0
SE	.4	6.9	3.0	.9	.0	.0		11.1	10.7		11.5	.0	6.4	.0	12.8	.0	13.8	.0
S	.0	2.1	1.8	.8	.3	.0		5.0	15.8		5.9	.0	6.1	.0	2.0	.0	6.8	.0
SW	.0	.7	1.8	.6	.0	.0		3.1	16.4		2.7	.0	5.4	.0	2.3	.0	3.3	.0
W	.0	.9	5.2	2.6	.5	.0		9.1	19.8		8.6	.0	9.9	.0	9.4	.0	10.0	.0
NW	.0	2.6	7.6	2.5	.5	.0		13.2	17.2		11.4	100.0	16.8	12.5	11.5	8.3	14.0	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0		6.9	.0	5.1	.0	3.5	.0	4.0	.0
TOT OBS	41	190	236	73	11	1	552		13.8		204	2	98	2	141	3	100	2
TOT PCT	7.4	34.4	42.8	13.2	2.0	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	18
N	3.1	9.9	9.3	1.8	.3		24.4	16.3	25.1	25.5	23.8	22.5
NE	5.2	7.5	4.6	.4	.0		17.7	12.1	18.2	14.0	21.2	15.2
E	3.6	6.5	1.0	.2	.0		11.3	9.6	9.2	11.5	14.2	11.5
SE	3.4	5.4	1.8	.5	.0		11.1	10.7	11.4	6.3	12.5	13.5
S	.7	2.9	.5	.8	.2		5.0	15.8	5.8	6.0	1.9	6.6
SW	.0	1.9	1.0	.2	.0		3.1	16.4	2.7	5.3	2.3	3.2
W	.5	2.2	4.7	1.8	.0		9.1	19.8	8.5	9.8	4.2	9.8
NW	1.4	5.5	4.8	1.3	.2		13.2	17.2	12.3	16.8	11.5	14.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	6.8	5.0	3.5	3.9
TOT OBS	126	231	153	38	4	552		13.8	206	100	144	102
TOT PCT	22.8	41.8	27.7	6.9	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.8	1.5	35.4	41.3	12.1	2.9	.0	13.6	100.0	206
06009	5.0	6.0	31.0	43.0	14.0	.0	1.0	13.4	100.0	100
12015	3.5	1.4	37.5	43.1	11.8	2.8	.0	13.8	100.0	144
18021	3.9	2.0	31.4	45.1	16.7	1.0	.0	14.4	100.0	102
TOT	28	13	190	236	73	11	1	13.8		552
PCT	5.1	2.4	34.4	42.8	13.2	2.0	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & Obscd	TOTAL OBS	MEAN CLOUD COVER
N	4.0	2.5	5.1	12.4		5.8
NE	5.0	2.7	4.6	4.4		4.6
E	2.1	1.5	4.1	3.8		5.3
SE	2.4	.9	3.4	3.7		5.2
S	.4	.2	1.7	2.8		6.6
SW	.2	.0	1.5	.6		6.5
W	.2	.2	3.6	5.3		7.0
NW	1.4	.3	4.8	8.2		6.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.9	1.7	1.1		4.4
TOT OBS	79	47	142	196	464	5.7
TOT PCT	17.0	10.1	30.6	42.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	.0	.2	.4	5.3	5.3	.2	.0	1.0	1.1	9.8	
NE	.2	.0	.0	.9	1.0	3.8	1.3	.0	.3	.1	9.2	
E	.4	.0	.0	.2	1.8	2.4	.2	.4	.6	.2	5.2	
SE	.8	.0	.0	.3	1.0	1.8	.4	.0	.6	.2	5.3	
S	.2	.0	.0	.4	1.0	1.3	.0	.0	.9	.2	1.1	
SW	.0	.0	.0	.2	.6	.6	.0	.0	.0	.0	.8	
W	.0	.0	.3	.9	4.3	1.9	.4	.0	.6	.0	.8	
NW	.8	.0	.5	1.5	3.8	3.7	.2	.0	.5	.3	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.4	.6	.4	.0	.2	.0	4.1	
TOT OBS	13	0	5	23	90	100	15	2	22	10	184	464
TOT PCT	2.8	.0	1.1	5.0	19.4	21.6	3.2	.4	4.7	2.2	39.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			
	>10	>5	>2	>1
>4500	1.0	3.9	4.9	6.3
>3000	1.6	4.5	5.5	6.9
>1500	4.1	7.5	8.6	10.0
>1000	17.1	23.8	26.5	29.9
>600	21.0	31.0	35.8	41.3
>300	21.4	32.0	37.5	44.8
>150	21.4	32.0	37.5	45.2
>0	21.6	32.2	38.1	46.4
TOTAL	106	158	187	228

TOTAL NUMBER OF OBS: 491

PCT FREQ NH <5/8: 39.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.2	2.9	9.0	7.7	5.2	7.0	6.3	7.7	39.6	2.3	556

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.5	.7	.2	.7	.1	.0	1.2	1.6	.0	.2	6.2	
	NO PCP	.1	.0	.5	.5	.0	.0	.0	.2	.0	.2	1.5	
	TOT %	1.6	.7	.6	1.2	.1	.0	1.2	1.8	.0	.3	7.7	
1/2<1	PCP	1.3	.0	.1	.7	.2	.2	1.8	1.2	.0	.2	5.7	
	NO PCP	.0	.3	.7	.4	.0	.0	.0	.2	.0	.2	1.8	
	TOT %	1.3	.3	.9	1.1	.2	.2	1.8	1.4	.0	.3	7.5	
1<2	PCP	2.0	.4	.7	.3	.9	.2	1.0	1.7	.0	.0	7.3	
	NO PCP	.1	.2	.0	.2	.1	.0	.0	.3	.0	.0	1.0	
	TOT %	2.1	.6	.7	.5	1.0	.2	1.0	2.1	.0	.0	8.3	
2<5	PCP	1.1	.5	.3	.3	.5	.3	.2	.7	.0	.0	4.0	
	NO PCP	1.1	1.7	.3	.7	.4	.2	.4	.3	.0	.5	5.7	
	TOT %	2.2	2.2	.7	1.1	.9	.5	.6	1.0	.0	.5	9.7	
5<10	PCP	.1	*	.7	.1	.0	*	.3	.7	.0	.0	2.0	
	NO PCP	7.3	2.5	2.2	2.8	1.1	1.1	2.2	2.8	.0	.8	22.8	
	TOT %	7.4	2.5	3.0	2.9	1.1	1.1	2.5	3.5	.0	.8	24.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	9.3	10.7	5.5	4.2	2.2	.9	2.1	3.5	.0	3.7	42.1	
	TOT %	9.3	10.7	5.5	4.2	2.2	.9	2.1	3.5	.0	3.7	42.1	
TOT OBS													601
TOT PCT		23.8	17.1	11.4	11.1	5.6	2.9	9.2	13.4	.0	5.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4		
	4-10	.5	.8	.7	.6	.0	.0	.0	.2	.0	.0	2.8		
	11-21	1.2	.0	.0	.6	.0	.0	.5	1.2	.0	.0	3.5		
	22+	.0	.0	.0	*	.1	.0	.6	.5	.0	.0	1.3		
	TOT %	1.7	.8	.7	1.2	.1	.0	1.1	1.8	.0	.4	7.9		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.4	.8	.5	.0	.0	.5	.3	.0	.0	2.4		
	11-21	.9	.0	.1	.4	.0	.0	.9	.8	.0	.0	3.1		
	22+	.2	.0	.0	.2	.0	.2	.3	.2	.0	.0	1.1		
	TOT %	1.1	.4	1.0	1.1	.0	.2	1.7	1.3	.0	.0	6.6		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.3	.3	.3	.2	.4	.0	.0	.2	.0	.0	1.7		
	11-21	1.2	.2	.1	.2	.2	*	.6	1.2	.0	.0	3.9		
	22+	.3	*	.1	*	.1	.2	.3	.5	.0	.0	1.7		
	TOT %	1.8	.5	.6	.5	.7	.2	1.0	1.9	.0	.0	7.2		
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.6	.7		
	4-10	.4	1.3	.4	.7	.4	.4	.0	.2	.0	.0	3.7		
	11-21	1.0	.8	.0	.2	.2	.0	.3	.7	.0	.0	3.1		
	22+	.5	.0	.0	*	.3	.2	.4	.2	.0	.0	1.7		
	TOT %	1.9	2.3	.4	1.0	.9	.6	.6	1.1	.0	.6	9.2		
5<10	0-3	.4	.0	.2	.0	.0	.0	.0	.0	.0	.7	1.3		
	4-10	1.6	1.1	2.1	2.1	.4	.2	.1	.5	.0	.0	8.1		
	11-21	3.5	1.3	.6	1.1	.2	1.0	1.2	1.5	.0	.0	10.3		
	22+	2.3	*	.0	.2	.3	*	1.1	1.3	.0	.0	5.3		
	TOT %	7.8	2.4	2.9	3.4	.9	1.2	2.4	3.3	.0	.7	29.0		
10+	0-3	.2	.9	.2	.4	.0	.0	.0	.0	.0	3.3	5.0		
	4-10	2.8	3.8	3.9	2.9	1.0	.2	.3	1.3	.0	.0	16.2		
	11-21	5.3	5.4	1.5	.6	1.3	.8	1.6	2.2	.0	.0	18.8		
	22+	1.5	1.5	.2	.4	.2	.0	.4	.2	.0	.0	4.2		
	TOT %	9.7	11.6	5.8	4.2	2.5	1.0	2.3	3.7	.0	3.3	44.1		
TOT OBS														344
TOT PCT		24.0	17.9	11.3	11.3	5.1	3.1	9.1	13.1	.0	9.0	100.0		

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	2.4	.0	1.4	4.7	15.6	25.1	5.2	.5	3.3	2.8	61.1	38.9	211
06009	.0	.0	2.2	4.3	28.0	23.7	.0	1.1	2.2	1.1	62.4	37.6	93
12015	6.5	.0	.0	4.9	15.4	17.1	4.1	.8	4.9	1.6	55.3	44.7	123
18021	1.3	.0	1.3	5.2	22.1	14.3	.0	.0	9.1	2.6	55.8	44.2	77
TOT	14	0	6	24	95	107	16	3	22	11	298	206	504
PCT	2.8	.0	1.2	4.8	18.8	21.2	3.2	.6	4.4	2.2	59.1	40.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	3.7	8.3	6.6	7.4	20.2	48.8	242
06009	6.2	5.3	8.8	7.1	25.7	46.9	113
12015	11.6	5.2	7.5	14.5	27.2	34.1	173
18021	3.5	8.8	9.7	10.6	31.0	36.3	113
TOT	52	45	50	63	160	271	641
PCT	8.1	7.0	7.8	9.8	25.0	42.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	2.4	15.9	30.4	35.7	33.8	207
06009	.0	13.5	33.7	32.6	33.7	89
12015	6.7	22.7	39.5	24.4	36.1	119
18021	1.3	14.5	30.3	26.3	43.4	76
TOT	14	83	163	152	176	491
PCT	2.9	16.9	33.2	31.0	35.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	.0	.0	.0	.0	.0	14.3	9	14.3
20/24	.0	.0	.0	.0	.0	.0	3.2	38.1	26	41.3
15/19	.0	.0	.0	.0	.0	.0	9.5	20.6	19	30.2
10/14	.0	.0	.0	.0	.0	.0	7.9	3.2	7	11.1
5/9	.0	.0	.0	.0	.0	.0	.0	3.2	2	3.2
TOTAL	0	0	0	0	0	0	13	50	63	100.0
PCT	.0	.0	.0	.0	.0	.0	20.6	79.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
3.2	1.6	.0	1.2	3.6	.0	2.4	2.4	.0	.0
6.3	3.2	4.0	4.8	4.0	.0	7.9	9.5	.0	1.6
12.7	1.6	.0	.0	1.6	.0	2.4	10.3	.0	1.6
4.4	.0	.0	.0	.0	.0	3.6	3.2	.0	.0
1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0
28.2	6.3	5.6	6.0	9.1	.0	16.3	25.4	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	41	37	34	18	-2	-8	-9	17.5	216
06009	46	41	36	19	3	-2	-2	10.1	100
12015	50	39	34	19	1	-1	-2	18.7	145
18021	41	37	36	19	-2	-4	-4	19.2	98
TOT	50	39	35	19	0	-4	-9	18.6	559

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	.0	.0	.0	18.8	81.3	95	16		16
06009	.0	.0	.0	.0	23.5	76.5	94	17		17
12015	.0	.0	.0	.0	31.3	68.8	94	16		16
18021	.0	.0	.0	.0	7.1	92.9	96	14		14
TOT	0	0	0	0	13	50	95	63		63

JANUARY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974

TABLE 17

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.3	.9	.0	4	.0	1.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	3	.0	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.6	.0	8	.0	2.4
4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	4	.0	1.2
3	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0	.0	5	.0	1.5
2	.0	.0	.0	.0	.0	.0	.0	2.1	.9	.0	.0	10	.0	3.0
1	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	6	.0	1.8
0	.0	.0	.0	.0	.0	.0	.0	3.0	.3	.0	.0	11	.0	3.3
-1	.0	.0	.0	.0	.0	.0	1.2	1.8	.0	.0	.0	10	.0	3.0
-2	.0	.0	.0	.0	.0	.0	.9	.6	.0	.0	.0	5	.0	1.5
-3	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	9	.0	2.7
-4	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	5	.0	1.5
-5	.0	.0	.0	.0	.0	.6	1.8	.6	.0	.0	.0	10	.0	3.0
-6	.0	.0	.0	.0	.0	2.1	1.5	.6	.0	.0	.0	14	.0	4.2
-7/-8	.0	.0	.0	.0	.3	6.3	1.8	.0	.0	.0	.0	28	.3	8.1
-9/-10	.0	.0	.0	.0	4.8	4.5	.9	.0	.0	.0	.0	34	.3	9.9
-11/-13	.0	.0	.0	1.8	9.9	3.0	.6	.0	.0	.0	.0	51	.0	15.4
-14/-16	.0	.0	.3	5.7	2.4	.6	.0	.0	.0	.0	.0	30	.0	9.0
-17/-19	.0	.0	2.4	4.5	.9	.0	.0	.0	.0	.0	.0	26	.6	7.2
-20/-22	.0	.3	4.2	.3	.6	.0	.0	.0	.0	.0	.0	18	.0	5.4
-23/-25	.3	2.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	14	.3	3.9
-26/-30	3.3	2.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	17	.6	5.1
<-30	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.3	1.5
TOTAL	18	16	28	42	57	43	38	5	2	332	8	324		
PCT	5.4	4.8	8.4	12.7	19.0	17.2	13.0	11.4	6.0	1.5	.6	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.1	1.3	.0	.0	.0	5.2	.9	5.7	.9	.0	.0	.0	7.4
1-2	.0	1.6	2.1	.0	.0	.0	3.7	.0	.6	1.3	.0	.0	.0	1.9
3-4	.0	.3	1.7	.4	.0	.0	2.5	.0	1.0	1.7	.9	.0	.0	3.5
5-6	.0	.3	1.3	1.3	.0	.0	2.9	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.3	.9	.0	.0	2.1
8-9	.0	.0	.0	.4	.0	.4	.9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.3	.7	.0	1.1	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.3	6.4	2.9	1.2	.4	17.1	.9	7.3	7.9	2.1	.0	.0	18.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	4.2	.0	.0	.0	.0	4.6	.0	3.8	.9	.0	.0	.0	4.7
1-2	.0	2.0	.9	.0	.0	.0	2.9	.0	.9	.9	.0	.0	.0	1.7
3-4	.0	.7	2.7	.0	.0	.0	3.4	.0	.0	.3	.5	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.9
7	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.9	4.2	.0	.4	.0	12.0	.0	4.7	2.5	1.0	.1	.0	8.2

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	1.5	.0	.0	.0	.0	1.5		.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	.9	1.3	.0	.0	.0	2.1		.0	.0	.4	.0	.0	.0	.0		.4
3-4	.0	.0	.9	.3	.0	.0	1.2		.0	.9	.4	.0	.0	.0	.0		2.1
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.4	.0	.0	.0		.6
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.4	.1	.0	.0	.0		.5
8-9	.0	.0	.0	.4	.0	.0	.4		.0	.0	.4	.0	.0	.0	.0		.4
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.3	.0	.3		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	2.4	2.1	.7	.3	.0	5.6		.0	.9	2.4	1.0	.0	.0	.0		4.2

HGT	M								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.3	.0	.0	.0	.3		.0	3.1	.5	.0	.0	.0	.0		3.6
1-2	.0	.3	1.5	.0	.0	.0	1.8		.0	.1	.6	.0	.0	.0	.0		.7
3-4	.0	.7	2.5	.4	.0	.0	3.6		.0	.2	1.4	.0	.0	.0	.0		1.6
5-6	.0	.0	3.8	.9	.0	.0	4.7		.0	.5	1.1	.9	.0	.0	.0		2.5
7	.0	.0	.0	.7	.0	.0	.7		.0	.0	.4	.9	.0	.0	.0		1.3
8-9	.0	.0	.3	.4	.0	.0	.7		.0	.0	.1	.4	.4	.0	.0		1.0
10-11	.0	.0	.0	1.6	.0	.0	1.6		.0	.0	.4	1.1	.9	.0	.0		2.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.4	.4	.0	.0	.0		.9
13-16	.0	.0	.0	.0	.3	.0	.3		.0	.0	.0	.0	.1	.0	.0		.1
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.4	.0	.0	.0	.0		.4
20-22	.0	.0	.0	.4	.0	.0	.4		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.1	8.4	4.5	.3	.0	14.3		.0	4.0	5.4	3.6	1.1	.0	.0		14.1 93.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	21.4	3.8	.0	.0	.0	33.8	
1-2	.0	6.4	9.0	.0	.0	.0	15.4	
3-4	.0	3.8	12.0	3.0	.0	.0	18.8	
5-6	.0	.9	8.1	3.8	.0	.0	12.8	
7	.0	.0	2.1	3.0	.4	.0	5.6	
8-9	.0	.0	2.6	1.7	.4	.4	5.1	
10-11	.0	.0	.9	3.0	1.3	.0	5.1	
12	.0	.0	.4	.4	.0	.0	.9	
13-16	.0	.0	.0	.4	1.3	.0	1.7	
17-19	.0	.0	.4	.0	.0	.0	.4	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.5	32.5	39.3	15.8	3.4	.4	100.0	234

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	6.1	4.5	5.3	4.5	2.1	.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	4
6-7	.0	1.3	2.7	2.9	3.2	2.4	1.6	1.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	60	7
8-9	.0	1.3	3.5	1.3	1.3	.3	2.1	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
10-11	.0	1.9	1.6	.3	.5	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
12-13	.0	.0	.3	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	10
>13	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	15.2	1.6	6.1	5.6	2.1	4.3	1.9	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	3
TOTAL	71	46	70	60	46	35	26	11	8	2	2	0	0	0	0	0	0	0	0	375	5
PCT	18.9	12.3	18.7	16.0	11.7	9.3	6.9	2.9	2.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974

FEBRUARY

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	17.3	.0	.0	17.3	.9	.0	6.6	.3	.6	.0	74.3
NE	.0	.0	.0	.1	10.0	.6	.0	10.7	1.4	.0	4.6	.0	.0	.0	83.3
E	.0	.0	.0	.6	19.6	.0	.0	20.3	1.3	.0	8.8	.8	.0	.0	68.9
SE	.0	.0	.0	.0	27.3	.0	.0	27.3	.3	.0	6.2	.0	1.0	.0	65.2
S	.0	.0	.0	.0	31.9	.0	.0	31.9	.0	.0	5.0	.0	1.7	.0	61.3
SW	.0	.0	.0	.0	38.8	2.2	.0	41.0	.0	.0	2.8	.0	.0	.0	56.2
W	.0	.0	.0	.0	46.7	1.4	.0	48.1	1.4	.0	5.2	.0	.0	.0	49.3
NW	2.0	.0	.0	.0	43.3	.3	.0	45.6	3.5	.0	8.8	.0	.3	.0	41.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	12.5	.0	.0	12.5	2.1	.0	11.5	.0	.0	.0	74.0
TOT PCT	.2	.0	.0	.1	22.6	.3	.0	23.2	1.3	.0	6.8	.2	.4	.0	68.2
TOT OBS:	1030														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	.0	.0	.4	19.8	.6	.0	20.7	.8	.0	8.2	.4	.6	.0	69.3
06009	.5	.0	.0	.0	25.7	.0	.0	26.2	2.5	.0	4.5	.0	1.0	.0	65.8
12015	.0	.0	.0	.0	23.1	.0	.0	23.1	.9	.0	3.8	.0	.0	.0	72.2
18021	.5	.0	.0	.0	25.1	.0	.0	25.6	1.4	.0	6.0	.0	.0	.0	67.0
TOT PCT	.2	.0	.0	.2	22.5	.3	.0	23.1	1.2	.0	6.3	.2	.4	.0	68.8
TOT OBS:	1140														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	10.8	10.7	4.4	1.0	.0		28.0	14.2	25.7	30.0	33.5	25.0	25.5	21.2	29.3	46.7	
NE	1.1	9.8	5.2	.8	.0	.0		16.9	9.7	16.2	21.7	13.4	16.7	23.9	23.0	14.4	11.7	
E	.8	8.2	2.3	.4	.1	.0		11.8	8.6	11.9	6.7	10.9	3.6	11.2	13.4	13.6	18.9	
SE	.3	5.0	2.9	1.3	.8	.0		9.4	12.1	10.0	1.7	7.8	20.2	9.8	17.3	8.5	6.7	
S	.4	3.0	.9	.8	.2	.0		5.4	11.9	6.0	5.0	3.9	.0	3.6	13.5	7.8	.0	
SW	.8	2.2	1.1	.4	.0	.0		3.7	11.7	2.9	6.7	5.0	.0	5.2	7.7	2.8	.0	
W	.3	1.5	2.9	1.0	.3	.0		5.3	16.4	5.6	.0	6.0	3.6	5.1	.0	5.7	.0	
NW	.2	3.0	5.1	1.7	.4	.0		10.4	15.5	9.0	28.3	12.6	31.0	9.8	.0	9.8	3.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.0							9.0	.0	12.7	.0	6.9	.0	5.9	.0	8.1	13.3	
TOT OBS	137	430	315	110	22	0	1034		11.3	411	15	174	21	187	13	198	15	
TOT PCT	13.2	43.5	30.9	10.6	2.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	6.4	12.7	6.4	2.3	.2		28.0	14.2	25.9	32.6	25.3	30.5	
NE	6.2	8.6	1.8	.3	.0		16.9	9.7	16.4	13.7	24.0	14.2	
E	5.6	5.3	.8	.1	.1		11.8	8.6	11.7	10.1	11.5	14.0	
SE	2.4	5.1	1.4	.6	.0		9.4	12.1	9.7	9.1	10.3	8.3	
S	2.0	2.1	.8	.5	.0		5.4	11.9	5.9	3.5	4.3	7.3	
SW	1.2	1.7	.7	.1	.0		3.7	11.7	3.1	4.5	5.4	2.6	
W	.9	2.0	1.8	.6	.1		5.3	16.4	5.4	5.8	4.8	5.3	
NW	1.6	4.2	3.8	.8	.1		10.4	15.5	9.7	14.6	9.1	9.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	9.0						9.0	.0	12.2	6.2	5.5	8.5	
TOT OBS	364	430	181	54	5	1034		11.3	426	195	200	213	
TOT PCT	35.2	41.6	17.5	5.2	.5	100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	12.2	5.6	45.5	25.4	8.9	2.3	.0	10.2	100.0	426
06609	6.2	2.1	41.5	38.5	9.7	2.1	.0	12.0	100.0	195
12615	5.5	5.0	47.5	30.0	11.0	1.0	.0	11.2	100.0	200
18621	8.5	2.8	37.6	33.8	14.6	2.8	.0	13.0	100.0	213
TOT	93	44	450	315	110	22	0	11.3		1034
PCT	9.0	4.3	43.5	30.5	10.6	2.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	8.8	3.2	6.8	8.0		4.5
NE	6.1	1.3	4.0	5.3		4.5
E	2.3	1.0	2.4	6.0		5.8
SE	1.6	.9	2.4	5.2		6.0
S	.7	.3	1.2	3.6		6.5
SW	.0	.3	1.6	2.1		6.8
W	.1	.3	1.6	3.5		7.1
NW	1.4	.5	2.3	6.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.0	2.2	3.4		4.9
TOT OBS	203	77	212	372	864	5.4
TOT PCT	23.5	8.9	24.5	43.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.3	.5	.4	.6	3.2	3.7	.9	.0	.7	.3	15.0	
NE	.4	.2	.1	.3	1.4	3.0	1.0	.0	.3	.4	9.4	
E	.9	.0	.1	.3	2.2	2.6	.8	.0	.4	.0	4.3	
SE	.6	.1	.6	.2	1.5	2.0	.8	.0	.5	.5	3.4	
S	.9	.0	.1	.4	1.1	1.5	.1	.0	.2	.0	1.6	
SW	.3	.*	.3	.6	.3	.9	.4	.3	.3	.0	.7	
W	.4	.2	.1	.1	1.8	1.0	1.0	.2	.1	.0	.7	
NW	2.0	.2	.5	.6	1.9	1.7	.4	.0	.6	.*	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.2	.9	1.3	.5	.0	.6	.0	4.7	
TOT OBS	67	11	20	29	124	152	51	4	33	10	363	864
TOT PCT	7.8	1.3	2.3	3.4	14.4	17.6	5.9	.5	3.8	1.2	42.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.3	3.6	4.2	4.8	4.8	4.9	4.9	4.9
>5000	2.4	3.7	4.7	5.2	5.3	5.5	5.5	5.5
>3500	4.8	7.7	9.6	10.3	10.9	11.1	11.1	11.1
>2000	14.0	21.1	25.5	27.5	29.0	29.3	29.3	29.3
>1000	17.4	27.5	34.2	38.4	41.9	42.6	43.7	43.7
>800	17.8	28.0	35.4	40.4	44.9	45.8	47.1	47.1
>300	17.9	28.3	36.5	41.9	47.1	48.2	49.6	49.6
>150	17.9	28.7	37.2	42.7	47.9	49.0	50.7	50.7
>0	18.0	29.0	39.1	45.4	51.5	54.5	58.2	58.3
TOTAL	170	273	368	428	485	513	548	549

TOTAL NUMBER OF OBS: 942

PCT FREQ NH <5/8: 41.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
16.7	3.2	7.6	5.4	4.4	5.2	6.7	5.8	38.3	6.6	1085

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.3	.4	.1	.3	.6	.1	1.9	.0	.0	4.6	
	NO PCP	.7	.3	.4	.3	.3	.1	.2	.6	.0	.6	3.3	
	TOT %	1.6	.6	.7	.4	.5	.7	.3	2.5	.0	.6	7.9	
1/2<1	PCP	.8	.1	1.1	1.3	.2	.5	.6	.6	.0	.3	5.4	
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.2	.0	.1	.6	
	TOT %	.8	.2	1.2	1.3	.2	.4	.6	.8	.0	.4	6.0	
1<2	PCP	1.4	.5	.5	.9	.3	.4	.7	1.5	.0	.3	6.5	
	NO PCP	.3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.5	
	TOT %	1.7	.5	.5	1.0	.4	.4	.7	1.5	.0	.3	7.0	
2<5	PCP	1.0	.7	.4	.5	1.0	.5	1.2	.9	.0	.7	7.5	
	NO PCP	2.0	.9	.9	.6	.1	.3	.7	.7	.0	.7	7.0	
	TOT %	3.0	1.6	1.3	1.2	1.1	.7	2.0	1.6	.0	1.3	14.4	
5<10	PCP	.1	.2	.3	.1	.1	.0	.1	.0	.0	.1	1.0	
	NO PCP	4.9	3.8	2.6	1.4	1.2	.5	.7	1.7	.0	1.0	17.8	
	TOT %	5.0	3.9	2.9	1.5	1.3	.5	.8	1.7	.0	1.1	18.7	
10+	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	NO PCP	14.8	9.8	4.9	4.3	2.1	1.5	.8	1.9	.0	5.6	45.7	
	TOT %	14.8	9.8	4.9	4.3	2.2	1.5	.8	1.9	.0	5.7	45.9	
TOT OBS													1046
TOT PCT		27.4	16.7	11.6	9.8	5.8	4.2	5.2	10.1	.0	9.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.5	.6	
	4-10	.4	.4	.5	.2	.3	.1	.1	.4	.0		2.5	
	11-21	.4	.0	.1	.2	.1	.4	.0	1.2	.0		2.4	
	22+	.8	.1	.1	.0	.1	.0	.2	1.0	.0		2.4	
	TOT %	1.6	.6	.7	.4	.5	.5	.3	2.6	.0	.5	7.8	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	.4	.1	.9	.6	.1	.1	.3	.1	.0		2.7	
	11-21	.3	.0	.3	.6	.0	.1	.2	.5	.0		2.0	
	22+	.2	.1	.0	.1	.0	.1	.2	.0	.0		.7	
	TOT %	.8	.2	1.3	1.3	.1	.3	.6	.7	.0	.3	5.7	
1<2	0-3	.1	.1	.1	.0	.1	.0	.1	.1	.0	.3	.9	
	4-10	.5	.2	.4	.3	.2	.3	.2	.3	.0		2.5	
	11-21	.6	.2	.2	.1	.0	.1	.3	.9	.0		2.4	
	22+	.5	.0	.0	.6	.1	.1	.1	.1	.0		1.6	
	TOT %	1.6	.5	.7	1.1	.4	.5	.7	1.5	.0	.3	7.3	
2<5	0-3	.1	.1	.1	.1	.0	.0	.1	.0	.0	1.3	1.8	
	4-10	1.0	.8	.9	.6	.5	.4	.3	.4	.0		5.0	
	11-21	2.1	.6	.2	.3	.3	.2	.7	1.0	.0		5.5	
	22+	.5	.1	.0	.2	.2	.0	.6	.2	.0		1.8	
	TOT %	3.7	1.6	1.2	1.2	1.0	.6	1.7	1.7	.0	1.3	14.0	
5<10	0-3	.2	.3	.2	.0	.2	.0	.0	.0	.0	1.1	2.0	
	4-10	1.8	2.2	1.7	.8	.5	.4	.4	.5	.0		8.4	
	11-21	2.2	1.3	.7	.7	.2	.0	.2	1.0	.0		6.2	
	22+	.9	.2	.3	.1	.4	.1	.1	.2	.0		2.4	
	TOT %	5.1	4.1	2.9	1.6	1.4	.5	.6	1.7	.0	1.1	19.0	
10+	0-3	.7	.5	.3	.1	.2	.0	.1	.1	.0	5.6	7.7	
	4-10	6.9	6.0	3.7	2.6	1.5	.9	.2	1.2	.0		23.0	
	11-21	3.2	3.2	.9	1.1	.3	.2	.3	.4	.0		11.9	
	22+	2.4	.2	.0	.2	.2	.1	.1	.2	.0		3.5	
	TOT %	13.2	10.0	4.9	4.0	2.2	1.3	.9	2.0	.0	5.6	46.1	
TOT OBS													1009
TOT PCT		28.2	17.0	11.7	9.5	5.6	3.8	4.9	10.2	.0	9.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	4.7	1.3	2.4	3.7	15.1	20.9	5.2	.9	4.1	.6	58.7	41.3	463
06009	5.9	1.1	2.7	4.8	14.9	18.1	5.9	.5	3.2	.5	57.4	42.6	188
12015	8.6	.6	1.9	2.5	16.0	13.0	8.0	.0	3.7	2.5	56.8	43.2	162
18021	16.8	1.3	2.7	2.0	9.4	14.1	4.7	.7	4.0	2.0	57.7	42.3	149
TOT PCT	72 7.5	11 1.1	23 2.4	33 3.4	138 14.3	173 17.9	55 5.7	6 .6	37 3.8	11 1.1	559 58.0	405 42.0	964 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.0	5.3	6.2	12.7	18.7	50.1	513
06009	8.1	6.2	8.1	11.5	19.6	46.4	209
12015	8.6	6.8	8.2	13.6	19.1	43.6	220
18021	9.9	5.9	7.2	19.8	18.5	38.7	222
TOT PCT	94 8.1	68 5.8	83 7.1	163 14.0	220 18.9	536 46.0	1164 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	5.1	15.2	30.4	31.9	37.7	454
06009	5.9	16.1	32.3	28.5	39.2	186
12015	8.9	20.4	36.9	21.7	41.4	157
18021	16.6	29.0	42.1	18.6	39.3	145
TOT PCT	72 7.6	173 18.4	317 33.7	259 27.5	366 38.9	942 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
43/49	.0	.0	.0	.0	1.0	.0	.0	.0	1	1.0
40/44	.0	.0	.0	.0	.0	.0	.0	1.0	1	1.0
30/34	.0	.0	.0	3.0	1.0	.0	2.0	.0	6	6.1
25/29	.0	2.0	5.1	6.1	4.0	5.1	3.0	5.1	30	30.3
20/24	.0	3.0	3.0	4.0	3.0	2.0	8.1	8.1	31	31.3
15/19	.0	1.0	5.1	2.0	3.0	4.0	3.0	4.0	22	22.2
10/14	.0	.0	.0	.0	.0	.0	1.0	2.0	3	3.0
5/9	.0	.0	.0	.0	.0	.0	1.0	4.0	5	5.1
TOTAL	0	6	13	15	12	11	18	24	99	100.0
PCT	.0	6.1	13.1	15.2	12.1	11.1	18.2	24.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
.0	3.0	.0	.0	.0	2.0	.0	1.0	.0	.0
4.5	5.6	3.8	11.4	.8	1.0	.0	1.3	.0	2.0
10.9	4.8	2.0	2.8	3.3	3.0	1.8	2.8	.0	.0
10.4	2.5	1.0	2.5	1.5	1.0	1.5	1.8	.0	.0
1.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0
.0	1.3	.8	.0	.0	.0	3.0	.0	.0	.0
26.8	17.2	7.6	18.7	5.6	8.1	7.3	6.8	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	36	32	18	-2	-9	-13	17.3	480
06009	51	46	32	20	4	-3	-4	19.5	193
12015	51	40	30	18	3	-1	-5	18.0	200
18021	52	46	32	18	1	-4	-4	18.0	208
TOT	52	40	32	18	1	-7	-13	17.9	1081

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	50.0	18.8	12.5	6.3	12.5	63	16
06009	.0	26.1	17.4	8.7	17.4	30.4	75	23
12015	.0	44.8	3.4	10.3	13.8	27.6	70	29
18021	.0	22.6	12.9	12.9	29.0	22.6	74	31
TOT	0	34	12	11	18	24	71	99

FEBRUARY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974AREA 0016 WEST COAST KAMCHATKA
53.9N 159.9E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	3	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	3	.0	.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	3	.0	.3
4	.0	.0	.0	.0	.0	.0	.0	.2	1.7	.0	.0	.0	.0	12	.0	1.8
3	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	15	.0	2.3
2	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	10	.0	1.5
1	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	14	.0	2.1
0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	5	.0	.8
-1	.0	.0	.0	.0	.0	.0	2.4	.6	.0	.0	.0	.0	.0	20	.3	2.7
-2	.0	.0	.0	.0	.0	.0	3.8	.5	.0	.0	.0	.0	.0	28	.0	4.3
-3	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	31	.2	4.6
-4	.0	.0	.0	.0	.0	.0	4.7	.8	.0	.0	.0	.0	.0	36	.0	5.5
-5	.0	.0	.0	.0	.0	2.4	2.4	.3	.0	.0	.0	.0	.0	34	.2	5.0
-6	.0	.0	.0	.0	.0	3.8	.2	.3	.0	.0	.0	.0	.0	28	.2	4.1
-7/-8	.0	.0	.0	.0	.2	6.5	1.5	.0	.0	.0	.0	.0	.0	54	.3	7.9
-9/-10	.0	.0	.0	.0	4.0	2.0	1.2	.3	.0	.0	.0	.0	.0	49	.5	7.0
-11/-13	.0	.0	.0	1.2	3.8	1.2	.3	.0	.0	.0	.0	.0	.0	42	.0	6.5
-14/-16	.0	.0	.5	6.1	2.4	.8	.0	.0	.0	.0	.0	.0	.0	64	.6	9.1
-17/-19	.0	.0	7.9	1.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	67	.3	9.9
-20/-22	.0	3.3	4.1	1.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	62	.0	9.4
-23/-25	.0	3.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.2	5.0
-26/-30	2.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.6	2.3
-40	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.3	2.1
TOTAL	27	95	71	112	140	60	18	2	4	637				100.0	3.5	96.5
PCT	4.1	7.6	14.5	10.9	11.0	17.0	21.3	9.1	2.7	.6	.3	.3	.6			

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	12.6	2.3	.0	.0	.0	15.7	1.0	14.2	1.8	.0	.0	.0	.0	17.0	
1-2	.0	.7	1.1	.0	.0	.0	1.8	.0	.5	1.5	.0	.0	.0	.0	2.1	
3-4	.0	.0	.7	.2	.0	.0	.9	.0	.0	.5	.3	.0	.0	.0	.8	
5-6	.0	.2	.4	.2	.0	.0	.9	.0	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.8	.2	.2	.0	1.2	.0	.0	.1	.5	.0	.0	.0	.6	
8-9	.0	.0	.2	.6	.0	.0	.8	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	13.5	5.9	1.4	.2	.0	21.9	1.0	14.7	4.0	.9	.0	.0	.0	20.6	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.4	10.6	.7	.0	.0	.0	12.8	.4	6.2	1.2	.0	.0	.0	.0	7.7	
1-2	.0	.5	1.5	.0	.0	.0	2.0	.0	.2	1.0	.0	.0	.0	.0	1.2	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	11.1	2.7	.0	.2	.0	19.4	.4	6.4	2.4	.7	.0	.0	.0	9.9	

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0016 WEST COAST KAMCHATKA
53.9N 159.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.9	.2	.0	.0	.0	4.5	.1	1.7	.1	.0	.0	.0	1.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
3-4	.0	.2	.0	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	.2	.7	.2	.0	5.6	.1	1.8	.4	.2	.0	.0	2.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.2	.5	.0	.0	.0	1.9	.1	3.7	.4	.0	.0	.0	4.2	
1-2	.0	.2	.7	.0	.0	.0	.8	.0	.2	1.0	.0	.0	.0	1.2	
3-4	.0	.0	.2	.2	.0	.0	.4	.0	.0	.7	.3	.0	.0	1.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.7	.0	.0	1.0	
8-9	.0	.0	.0	.2	.2	.0	.4	.0	.0	.7	.4	.0	.0	1.1	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.4	1.4	.8	.2	.0	4.0	.1	4.0	3.3	1.7	.0	.0	9.0	88.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.4	54.2	7.1	.0	.0	.0	76.7	
1-2	.0	2.4	6.9	.0	.0	.0	9.3	
3-4	.0	.2	2.6	1.4	.0	.0	4.3	
5-6	.0	.2	1.0	1.0	.2	.0	2.4	
7	.0	.0	1.2	1.9	.2	.0	3.3	
8-9	.0	.0	1.0	1.4	.2	.0	2.6	
10-11	.0	.0	.2	.5	.0	.0	.7	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.2	.2	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.4	57.0	20.2	6.4	1.0	.0	100.0	421

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	19.9	5.0	3.6	1.4	1.9	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	2
6-7	.0	4.2	4.3	2.8	2.6	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	4
8-9	.0	2.6	1.7	.9	1.0	.2	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5
10-11	.0	1.2	1.7	.0	.2	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
12-13	.0	.0	.5	.0	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDEX	31.0	1.6	2.1	1.2	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	1
TOTAL	294	84	81	38	43	24	8	2	3	1	0	0	0	0	0	0	0	0	0	978	2
PCT	50.9	14.5	14.0	6.6	7.4	4.2	1.4	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1974
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	.0	.0	.0	.0	12.7	.0	.0	12.7	1.2	.0	3.0	.0	.2	.0	82.9	
NE	.0	.0	.0	.0	11.6	.0	.0	11.6	1.3	.0	3.3	1.3	.3	.0	81.9	
E	.0	.0	.0	.0	17.0	.0	.0	17.0	.0	.0	7.5	.0	1.7	.0	73.7	
SE	.0	.0	.0	.7	20.6	.0	.0	21.3	1.1	.0	4.3	.0	.0	.0	73.1	
S	.0	.0	.0	.0	27.1	.0	.0	27.1	3.3	.0	4.3	.0	.8	.0	64.1	
SW	.0	.0	.0	.0	49.9	.3	.0	50.1	2.2	.0	3.7	.0	1.1	.0	40.9	
W	.7	.7	.0	.0	34.3	.6	.0	35.1	7.2	.0	4.2	.0	.7	.0	52.8	
NW	.0	.0	.0	.7	23.6	.0	.0	26.3	3.2	.0	3.3	.0	.7	.0	66.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	6.7	.0	.0	6.7	1.2	.0	8.0	.6	.6	.0	82.8	
TOT PCT	.1	.1	.0	.1	20.4	.1	.0	20.6	2.2	.0	4.7	.2	.6	.0	71.7	
TOT OBS: 1354																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	.0	.2	.0	.0	19.3	.2	.0	19.5	2.2	.0	6.1	.2	.3	.0	71.6
0600	.0	.0	.0	.3	15.6	.0	.0	15.9	2.3	.0	3.1	.0	.3	.0	78.1
1200	.0	.0	.0	.3	21.8	.0	.0	22.1	1.2	.0	2.7	.3	.6	.0	73.1
1800	.4	.0	.0	.0	25.9	.0	.0	25.9	3.4	.0	4.3	.4	1.1	.0	64.7
TOT PCT	.1	.1	.0	.1	20.2	.1	.0	20.4	2.3	.0	4.4	.2	.6	.0	72.1
TOT OBS:	1508														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	11.5	8.3	1.8	.1	.0		22.6	11.3		18.8	10.9	30.8	14.7	25.0	.0	20.1	12.5
NE	.6	7.2	2.7	.2	.0	.0		10.7	9.0		10.9	1.6	6.1	8.8	13.5	.0	13.3	.0
E	.7	4.5	1.7	.2	.1	.1		7.3	9.4		7.2	17.2	5.3	.0	7.7	33.3	8.9	.0
SE	.3	4.2	2.9	1.3	.7	.0		10.0	14.1		13.2	7.8	8.6	17.6	6.9	8.3	7.6	31.3
S	.4	4.2	2.9	1.4	.8	.0		9.7	14.3		9.6	23.4	8.6	16.2	8.8	25.0	10.6	18.8
SW	.1	3.1	2.0	1.4	.3	.0		6.9	14.4		6.6	14.1	7.7	13.2	5.5	.0	6.7	25.0
W	.4	4.7	3.8	1.1	.1	.1		10.1	12.9		9.1	12.5	10.5	23.5	9.7	33.3	10.7	12.5
NW	.3	3.8	3.3	1.0	.2	.0		10.6	11.8		9.2	12.5	13.0	.0	11.9	.0	10.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0							12.0	.0		13.4	.0	9.2	5.9	11.0	.0	11.6	.0
TOT OBS	211	620	376	113	32	2	1354		10.6		495	16	273	17	301	3	241	8
TOT PCT	15.6	45.8	27.8	8.3	2.4	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	6.8	11.3	4.2	.3	.1		22.6	11.3	18.8	29.8	24.8	19.9	
NE	4.7	4.6	1.5	.0	.0		10.7	9.0	10.6	6.3	13.4	12.9	
E	3.4	3.1	.5	.1	.1		7.3	9.4	7.3	5.0	8.0	8.6	
SE	2.3	4.3	2.0	1.0	.2		10.0	14.1	13.0	9.3	6.9	8.3	
S	2.3	4.1	1.7	1.3	.1		9.7	14.5	10.1	9.1	9.0	10.8	
SW	1.6	2.7	2.1	.4	.1		6.9	14.4	6.8	8.0	5.4	7.3	
W	3.0	4.3	2.3	.3	.1		10.1	12.9	9.2	11.3	10.0	10.7	
NW	3.7	4.4	1.9	.0	.0		10.6	11.8	9.3	12.2	11.8	10.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	12.0						12.0	.0	14.9	9.0	10.9	11.2	
TOT OBS	344	528	219	34	9	1354		10.6	511	290	304	249	
TOT PCT	40.2	39.0	16.2	4.0	.7		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	14.9	3.7	44.8	25.4	8.4	2.7	.0	10.2	100.0	511
0600	9.0	3.8	44.1	31.7	7.6	3.1	.7	11.4	100.0	290
1200	10.9	4.6	49.0	24.0	10.2	1.3	.0	10.4	100.0	304
1800	11.2	1.6	45.8	32.3	6.8	2.0	.0	10.6	100.0	249
TOT	103	48	620	376	113	32	2	10.6		1334
PCT	12.0	3.5	45.8	27.8	8.3	2.4	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	3.2	6.5	7.6		5.1
NE	2.8	1.7	2.5	3.9		4.9
E	1.9	1.3	1.4	3.0		5.0
SE	1.0	1.2	3.1	4.7		6.1
S	1.5	.9	2.4	4.2		5.9
SW	.6	.5	2.0	4.5		6.7
W	.8	.3	2.8	5.9		6.8
NW	1.4	1.1	3.7	4.7		6.0
VAR	.0	.0	.0	.0		.0
CALM	5.7	1.6	2.4	1.9		3.2
TOT OBS	215	119	270	407	1011	5.4
TOT PCT	21.3	11.8	26.7	40.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.5	.0	.1	.4	2.4	4.9	1.1	.0	.8	.8	10.9	
NE	.6	.0	.1	.2	.8	2.3	.7	.1	.2	.2	5.8	
E	.4	.0	.1	.0	.6	1.2	.3	.1	.1	.5	4.3	
SE	1.0	.0	.2	.1	1.6	2.6	.5	.0	.3	.1	3.6	
S	1.1	.0	.3	.2	1.7	2.0	.4	.0	.0	.0	3.2	
SW	1.2	.1	.3	.0	1.9	1.6	.5	.0	.0	.0	1.8	
W	.9	.1	.3	.5	2.5	2.9	.4	.0	.4	.1	1.7	
NW	.9	.0	.1	.2	2.5	2.4	.6	.0	.7	.2	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.1	.2	.1	.3	1.4	.5	.0	.1	.2	8.3	
TOT OBS	81	3	18	17	145	216	50	2	26	21	432	1011
TOT PCT	8.0	.3	1.8	1.7	14.3	21.4	4.9	.2	2.6	2.1	42.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.1	4.0	4.5	5.0	5.0	5.0	5.0	5.0
= OR >5000	3.4	4.4	4.9	5.5	5.5	5.5	5.5	5.5
= OR >3500	6.5	8.5	9.5	10.1	10.2	10.2	10.2	10.2
= OR >2000	18.3	27.0	29.0	31.0	31.9	31.9	32.1	32.1
= OR >1000	21.9	34.4	38.0	42.6	45.5	46.2	47.0	47.0
= OR >600	22.0	35.0	39.3	44.2	47.2	48.0	48.9	48.9
= OR >300	22.0	35.4	40.1	45.2	48.5	49.3	50.6	50.6
= OR >150	22.1	35.8	40.3	45.4	48.7	49.6	50.9	50.9
= OR >0	22.4	37.1	42.7	49.4	53.7	55.5	58.4	58.5
TOTAL	249	413	475	549	597	617	649	651

TOTAL NUMBER OF OBS: 1112

PCT FREQ NM <5/8: 41.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.7	2.0	7.8	5.0	5.7	5.9	7.5	7.9	35.0	6.4	1333

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.2	.4	.6	.4	.4	.8	.2	.0	.1	3.4	
	NO PCP	.3	.2	.1	.2	.4	.7	.1	.2	.0	.7	2.2	
	TOT %	.3	.4	.4	.8	.8	.6	.9	.4	.0	.7	5.6	
1/2<1	PCP	.3	.2	.1	.4	.6	1.1	.6	.5	.0	.0	3.9	
	NO PCP	.1	.0	.0	.0	.1	.0	.1	.1	.0	.1	.4	
	TOT %	.6	.2	.1	.4	.7	1.1	.6	.6	.0	.1	4.4	
1<2	PCP	.3	.2	.6	.3	.5	1.3	1.2	1.0	.0	.3	9.9	
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.8	
	TOT %	.6	.3	.8	.4	.6	1.3	1.2	1.1	.0	.3	6.7	
2<5	PCP	.9	.4	.1	.6	.7	.6	.8	1.1	.0	.4	5.6	
	NO PCP	1.1	.3	.6	.6	.1	.3	.7	.5	.0	.6	4.8	
	TOT %	2.0	.7	.7	1.2	.8	.9	1.5	1.5	.0	1.0	10.4	
5<10	PCP	.4	.1	.1	.1	.3	.3	.4	.3	.0	.0	1.9	
	NO PCP	5.7	4.4	1.7	2.3	2.3	1.6	2.9	1.9	.0	3.6	26.4	
	TOT %	6.1	4.5	1.8	2.4	2.6	1.9	3.3	2.2	.0	3.6	28.3	
10+	PCP	.1	.0	.0	.1	.1	.0	.0	.1	.0	.1	.5	
	NO PCP	12.4	4.8	3.7	4.6	3.6	1.2	2.5	4.9	.0	6.2	44.0	
	TOT %	12.6	4.8	3.7	4.7	3.8	1.2	2.5	5.0	.0	6.3	44.5	
TOT OBS													1350
TOT PCT		22.4	11.1	7.5	9.9	9.3	6.9	10.0	10.9	.0	12.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
	4-10	.2	.2	.2	.2	.2	.1	.0	.1	.0		1.1	
	11-21	.3	.2	.1	.3	.1	.2	.5	.2	.0		1.7	
	22+	.1	.0	.1	.4	.6	.3	.3	.2	.0		1.9	
	TOT %	.5	.4	.3	.9	.9	.5	.8	.4	.0	.8	5.5	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.1	.1	.1	.3	.2	.1	.1	.0		1.3	
	11-21	.1	.1	.0	.0	.1	.3	.1	.3	.0		1.0	
	22+	.1	.0	.0	.3	.4	.7	.2	.2	.0		2.0	
	TOT %	.6	.2	.1	.4	.8	1.1	.6	.6	.0	.2	4.5	
1<2	0-3	.1	.0	.0	.0	.0	.2	.1	.1	.0	.3	.6	
	4-10	.2	.3	.6	.2	.2	.5	.3	.5	.0		2.8	
	11-21	.3	.1	.2	.1	.4	.5	.8	.3	.0		2.5	
	22+	.1	.0	.0	.2	.1	.4	.1	.2	.0		.9	
	TOT %	.6	.3	.8	.4	.6	1.4	1.3	1.1	.0	.3	6.8	
2<5	0-3	.0	.1	.1	.1	.0	.0	.0	.1	.0	1.1	1.4	
	4-10	.8	.6	.6	.5	.3	.6	.6	.6	.0		4.6	
	11-21	.7	.1	.1	.3	.2	.2	.9	.5	.0		2.8	
	22+	.5	.0	.0	.4	.4	.1	.1	.4	.0		1.9	
	TOT %	2.1	.8	.7	1.3	.8	.9	1.5	1.6	.0	1.1	10.7	
5<10	0-3	.1	.2	.2	.2	.2	.0	.1	.2	.0	3.6	4.5	
	4-10	2.9	2.9	.6	1.1	1.1	1.1	1.7	1.0	.0		12.4	
	11-21	2.5	1.3	.8	1.0	1.0	.6	1.1	.9	.0		9.3	
	22+	.5	.1	.2	.4	.4	.2	.4	.2	.0		2.5	
	TOT %	6.1	4.5	1.9	2.5	2.6	1.9	3.3	2.2	.0	3.6	28.7	
10+	0-3	.5	.2	.5	.2	.3	.1	.2	.2	.0	6.1	8.1	
	4-10	7.0	2.2	2.4	2.9	2.1	.8	1.9	3.4	.0		23.7	
	11-21	4.5	1.0	.5	1.3	1.1	.2	.5	1.3	.0		10.5	
	22+	.7	.1	.1	.2	.3	.2	.1	.1	.0		1.6	
	TOT %	12.7	4.5	3.5	4.7	3.8	1.1	2.5	4.9	.0	6.1	43.8	
TOT OBS													1319
TOT PCT		22.6	10.8	7.3	10.2	9.5	6.9	10.0	10.8	.0	12.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.3	.2	2.2	2.7	16.1	23.3	5.9	.6	2.5	2.0	61.8	38.2	510
06009	4.0	.7	1.1	.7	12.9	21.0	4.8	.7	4.4	2.2	52.6	47.4	272
12015	9.4	.0	1.9	.5	13.2	15.6	1.9	.0	2.4	1.4	46.2	53.8	212
18021	17.1	.0	.6	2.4	12.4	21.2	3.5	.0	2.9	1.2	61.2	38.8	170
TOT	92	3	19	21	166	245	53	5	35	21	660	504	1164
PCT	7.9	.3	1.6	1.8	14.3	21.0	4.6	.4	3.0	1.8	56.7	43.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.3	5.1	6.1	8.8	24.9	48.9	591
06009	4.7	3.4	6.2	9.3	23.7	52.6	321
12015	6.1	3.6	7.3	10.9	30.9	41.2	330
18021	5.3	4.2	7.9	15.5	34.3	32.8	265
TOT	86	64	101	159	416	681	1507
PCT	5.7	4.2	6.7	10.6	27.6	45.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.3	15.4	27.1	39.7	33.2	494
06009	4.3	9.4	19.9	37.5	42.6	256
12015	9.0	19.6	31.7	23.1	45.2	199
18021	15.3	20.9	36.2	27.0	36.8	163
TOT	85	173	307	382	423	1112
PCT	7.6	15.6	27.6	34.4	38.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
33/39	.0	.0	.0	.0	.0	.8	1.7	.0	3	2.5
30/34	.0	.0	.0	1.7	.8	6.7	13.4	5.9	34	28.6
25/29	.0	.0	.0	.0	3.4	10.9	8.4	13.4	43	36.1
20/24	.0	.0	.0	.0	2.5	2.5	5.9	2.5	16	13.4
15/19	.0	.0	.0	.0	1.7	6.7	5.9	.8	18	15.1
10/14	.0	.0	.0	.0	.0	.0	1.7	2.5	5	4.2
TOTAL	0	0	0	2	10	33	44	30	119	100.0
PCT	.0	.0	.0	1.7	8.4	27.7	37.0	25.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
33/39	.0	.0	.8	1.7	.0	.0	.0	.0	.0	.0
30/34	4.6	4.8	4.0	5.3	4.0	1.7	.8	3.4	.0	.0
25/29	2.1	4.4	4.0	5.3	5.9	4.4	3.6	4.0	.0	2.5
20/24	1.7	.8	1.5	2.1	2.3	.8	3.2	1.1	.0	.0
15/19	1.7	.0	1.7	.8	3.2	4.4	3.2	.2	.0	.0
10/14	1.7	.0	.0	.0	.0	.2	.6	1.7	.0	.0
TOTAL	11.8	10.1	12.0	15.1	15.3	11.6	11.3	10.3	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	39	34	26	9	0	-11	24.0	582
06009	44	40	37	27	12	9	1	25.8	303
12015	40	36	32	24	10	5	4	22.7	320
18021	39	36	31	23	7	-1	-2	20.8	259
TOT	50	39	34	25	9	1	-11	23.5	1464

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	7.5	25.0	40.0	25.0	82	40
06009	.0	2.9	8.8	32.4	38.2	17.6	81	34
12015	.0	.0	9.1	18.2	31.8	40.9	84	22
18021	.0	.0	12.0	32.0	32.0	24.0	81	25
TOT	0	2	11	33	44	31	82	121

MARCH

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1956-1974

TABLE 17

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	5	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.0	9	.0	1.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	4	.0	.5
5	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	12	.1	1.3
4	.0	.0	.0	.0	.0	.0	.2	1.2	.2	.0	.0	14	.0	1.6
3	.0	.0	.0	.0	.0	.0	.0	1.5	.7	.7	.0	25	.0	2.9
2	.0	.0	.0	.0	.0	.0	.0	3.4	.6	.2	.0	36	.3	3.8
1	.0	.0	.0	.0	.0	.0	.0	6.1	.6	.0	.0	38	.2	6.5
0	.0	.0	.0	.0	.0	.0	1.0	6.1	.2	.1	.0	65	.1	7.4
-1	.0	.0	.0	.0	.0	.0	3.2	2.8	.1	.0	.0	33	.2	5.9
-2	.0	.0	.0	.0	.0	.0	5.4	1.5	.1	.0	.0	61	.1	6.9
-3	.0	.0	.0	.0	.0	.0	6.8	1.4	.0	.0	.0	71	.3	7.9
-4	.0	.0	.0	.0	.0	.1	5.2	.7	.0	.0	.0	52	.1	5.9
-5	.0	.0	.0	.0	.0	.0	3.0	4.3	.6	.0	.0	68	.1	7.7
-6	.0	.0	.0	.0	.0	.0	3.6	2.1	.5	.0	.0	53	.5	5.7
-7/-8	.0	.0	.0	.0	.0	.2	5.1	1.8	.1	.0	.0	63	.2	7.1
-9/-10	.0	.0	.0	.0	.4	.9	1.5	.9	.1	.0	.0	64	.2	7.2
-11/-13	.0	.0	.0	1.2	5.1	1.5	.5	.1	.0	.0	.0	73	.3	8.1
-14/-16	.0	.0	.1	3.2	.7	.1	.0	.0	.0	.0	.0	36	.1	4.0
-17/-19	.0	.0	1.0	.7	.1	.0	.0	.0	.0	.0	.0	16	.2	1.6
-20/-22	.0	.3	.7	.1	.0	.3	.0	.0	.0	.0	.0	13	.0	1.5
-23/-25	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.1	.4
-26/-30	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.1	.6
<-30	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
TOTAL	8	7	18	45	95	132	271	45	25	2		865	31	834
PCT	.9	.8	2.1	5.2	11.0	15.3	31.3	25.1	5.2	2.9	.2	100.0	3.6	93.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	11.0	1.6	.0	.0	.0	13.5	.9	6.9	.4	.0	.0	.0	8.3
1-2	.0	1.8	2.6	.0	.0	.0	4.4	.0	.2	.2	.0	.0	.0	.4
3-4	.0	1.1	2.2	.4	.0	.0	3.6	.0	.0	.6	.1	.0	.0	.7
5-6	.0	.6	.6	.2	.0	.0	1.4	.0	.0	.2	.0	.0	.0	.2
7	.0	.2	.3	.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	14.9	7.3	.8	.0	.0	23.9	.9	7.1	1.4	.1	.0	.0	9.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	4.6	.4	.0	.0	.0	5.6	.4	4.3	.7	.0	.0	.0	5.3
1-2	.0	.4	.0	.0	.0	.0	.4	.2	.4	.6	.0	.0	.0	1.2
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.2	.6	.4	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.2	.2	.0	.5	.2	.2	.2	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.1	.7	.0	.0	.2	6.5	.5	5.2	2.3	1.0	1.1	.0	10.2

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0016 WEST COAST KAMCHATKA
53.9N 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.3	.4	.0	.0	.0	4.8	.2	1.6	.4	.0	.0	.0	2.1
1-2	.0	.5	1.0	.0	.0	.0	1.5	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.2	.9	.3	.0	.0	1.4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.5	.4	.3	.0	.0	1.2	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.6	.5	.2	.0	1.2	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.2	.2	.1	.4	.0	.8	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.4	.5	.2	.0	1.1
12	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.2	.4	.4	.0	1.0	.0	.0	.0	.7	.0	.0	.7
17-19	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.8	3.7	2.1	1.8	.0	13.2	.2	2.1	2.3	2.2	.5	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	2.1	.4	.0	.0	.0	3.0	.4	6.3	.7	.0	.0	.0	7.4	
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	1.0	.4	.0	.0	.0	1.4	
3-4	.0	.2	.3	.0	.0	.0	.5	.0	.4	.8	.0	.0	.0	1.1	
5-6	.0	.2	.3	.2	.0	.0	.7	.0	.0	.4	.5	.0	.0	.9	
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.1	.2	.0	.0	.3	
8-9	.0	.0	.2	.4	.0	.0	.5	.0	.2	.8	.0	.0	.0	.2	
10-11	.0	.0	.5	.2	.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.7	2.3	1.2	.3	.0	8.0	.4	7.9	2.3	.6	.2	.0	11.3	90.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.6	40.3	5.0	.0	.0	.0	60.0	
1-2	.2	6.2	4.7	.0	.0	.0	11.1	
3-4	.0	1.9	5.9	1.1	.0	.0	8.9	
5-6	.0	1.2	3.0	1.4	.2	.0	5.8	
7	.0	.2	1.7	.8	.3	.0	3.0	
8-9	.0	.3	.9	1.4	.8	.0	3.4	
10-11	.0	.0	.9	.6	.9	.0	2.5	
12	.0	.0	.0	.2	.6	.0	.8	
13-16	.0	.8	.3	1.7	.6	.2	3.6	
17-19	.0	.0	.0	.5	.3	.0	.8	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.8	50.9	22.4	7.9	3.7	.2	100.0	642

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	8.9	5.8	3.7	1.5	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	3
6-7	.0	1.3	4.2	3.6	1.1	1.5	1.1	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	6
8-9	.0	.4	1.1	1.2	.7	.4	1.1	.2	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	9
10-11	.0	1.2	.2	.1	.5	.1	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	25	7
12-13	.0	.0	1.9	.4	.0	.0	.2	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	27	7
>13	.0	.0	.0	.7	.2	.1	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
INDEX	25.1	2.4	6.4	2.7	3.3	1.7	.2	.0	.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	362	2
TOTAL	270	119	165	106	62	34	29	8	30	12	6	0	0	0	0	0	0	0	0	841	4
PCT	32.1	14.1	19.6	12.6	7.4	4.0	3.4	1.0	3.6	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

APRIL

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.3	.0	.0	.0	6.0	.0	.0	6.3	1.5	.0	3.9	.0	.0	.0	88.4
NE	.0	.0	.0	.0	12.0	.0	.0	12.0	.3	.0	7.4	.0	1.2	.0	79.0
E	.7	.0	.0	.0	16.7	.0	.0	17.4	4.6	1.3	4.6	1.3	.0	.0	72.1
SE	2.3	.6	.0	.0	17.8	.0	.0	19.5	2.2	.0	6.4	.0	.0	.0	71.9
S	1.9	.0	1.5	.4	18.9	.0	.0	21.9	1.8	.0	12.2	.4	.0	.0	69.7
SW	2.4	.0	1.0	.0	24.6	.0	.0	25.5	3.4	.0	13.2	.0	.0	.0	57.9
W	.0	.0	.0	.0	21.7	.0	.0	21.7	6.0	.0	3.2	.0	.5	.0	68.5
NW	.0	.0	.0	.0	13.0	.0	.0	13.0	5.6	.0	7.6	.0	.1	.0	73.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	.0	.0	10.9	1.0	.0	11.9	3.0	.0	13.9	1.0	.0	.0	70.3
TOT PCT	.9	.1	.3	.1	14.6	.1	.0	15.5	2.9	.1	7.7	.2	.1	.0	73.6
TOT OBS:	1503														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.7	.2	.4	.0	14.6	.2	.0	15.5	2.1	.2	9.1	.2	.0	.0	73.1
06009	1.5	.0	.3	.3	10.1	.0	.0	11.3	3.0	.0	7.7	.0	.3	.0	77.7
12015	.3	.0	.3	.0	15.6	.0	.0	16.2	3.9	.0	5.6	.0	.0	.0	74.4
18021	1.6	.0	.3	.0	19.0	.0	.0	19.9	2.6	.0	6.8	1.0	.3	.0	69.3
TOT PCT	1.0	.1	.3	.1	14.7	.1	.0	15.6	2.8	.1	7.6	.3	.1	.0	73.7
TOT OBS:	1575														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.9	9.5	9.6	3.4	.0	.0		24.4	12.9		23.4	26.3	27.4	21.9	24.7	26.1	22.8	23.2
NE	.5	3.1	1.5	.2	.1	.0		5.2	9.7		5.2	3.4	3.7	2.0	4.4	6.3	8.9	6.8
E	1.0	2.4	1.3	.2	.0	.0		5.0	8.9		7.9	5.5	1.2	1.7	4.9	3.4	5.3	4.8
SE	.5	4.1	3.8	2.0	.5	.1		11.0	15.2		11.7	9.7	12.9	8.1	7.2	9.2	14.7	10.6
S	.4	6.2	7.3	2.9	.2	.0		17.1	14.4		17.6	19.1	16.8	21.6	15.8	13.8	16.6	20.7
SW	.7	3.7	3.6	.6	.1	.0		8.6	11.5		7.5	5.5	7.7	10.1	10.1	17.0	7.6	9.3
W	.5	4.3	3.5	.8	.0	.0		9.2	11.9		6.7	14.5	10.3	16.0	8.2	9.8	6.7	12.6
NW	.8	5.8	5.3	1.1	.1	.0		13.1	12.4		10.7	15.3	13.2	14.0	17.1	10.9	11.4	9.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0		9.1	.8	6.8	4.5	7.6	3.4	5.7	2.0
TOT OBS	204	629	581	179	17	1	1611		12.0		461	119	249	89	277	87	230	99
TOT PCT	12.7	39.0	36.1	11.1	1.1	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	5.9	10.2	7.7	.6	.0		24.4	12.9	24.0	26.0	25.1	22.9	
NE	1.8	2.9	.4	.1	.0		5.2	9.7	4.8	3.3	4.9	8.3	
E	2.3	2.2	.5	.1	.0		5.0	8.9	7.4	1.3	4.3	5.3	
SE	2.2	4.6	2.7	1.3	.2		11.0	15.2	11.3	11.6	7.7	13.4	
S	3.3	7.7	5.0	1.1	.1		17.1	14.4	18.1	16.6	13.2	17.9	
SW	2.8	3.9	1.7	.2	.0		8.6	11.5	7.1	8.4	11.7	8.1	
W	2.3	4.7	1.9	.2	.0		9.2	11.9	8.3	11.8	8.6	8.5	
NW	2.9	7.2	2.1	.8	.0		13.1	12.4	11.6	14.9	15.6	10.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.4						6.4	.0	7.4	6.2	6.6	4.6	
TOT OBS	481	700	355	71	4	1611		12.0	580	338	364	329	
TOT PCT	29.9	43.5	22.0	4.4	.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

APRIL

AREA 0016 WEST COAST KAMCHATKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	7.4	5.0	41.4	34.3	11.0	.9	.0	11.7	100.0	580
06009	6.2	5.9	36.7	37.6	11.2	2.1	.3	12.6	100.0	338
12015	6.6	7.7	37.9	35.7	11.0	1.1	.0	12.0	100.0	304
18021	4.6	7.3	38.6	38.0	11.2	.3	.0	11.8	100.0	329
TOT	103	101	629	581	179	17	1	12.0		1611
PCT	6.4	6.3	39.0	36.1	11.1	1.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.5	3.0	6.8	7.5		4.9
NE	.7	.5	.8	2.5		6.0
E	.4	.3	.9	2.7		6.6
SE	1.2	1.0	2.2	6.7		6.4
S	2.3	.7	3.8	11.0		6.5
SW	1.3	.5	1.6	5.2		6.4
W	1.2	.9	3.3	4.3		6.0
NW	2.4	1.4	4.0	5.4		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	1.6	3.0		5.3
TOT OBS	206	102	288	557	1153	5.8
TOT PCT	17.9	8.8	25.0	48.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.1	.2	.2	1.6	4.0	3.5	1.9	.3	.4	.1	10.6	
.5	.0	.0	.1	.5	1.1	.2	.2	.1	.1	1.7	
.4	.0	.0	.6	.6	.9	.4	.0	.2	.1	1.3	
1.5	.0	.5	1.0	2.0	1.8	.7	*	.5	.1	3.0	
3.3	.1	1.0	1.6	3.2	3.0	.8	.1	.3	.6	4.0	
.9	.1	.4	1.2	1.5	2.1	.2	.1	.1	*	1.9	
.5	.1	.3	1.3	2.2	1.8	.5	.1	.1	.1	2.7	
1.0	.1	.1	1.0	2.3	2.3	1.0	.0	.2	.1	5.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.0	.0	.0	.8	.6	1.0	.3	.0	.3	.1	2.9	
116	6	29	107	194	204	68	8	24	14	383	1153
10.1	.5	2.5	9.3	16.8	17.7	5.9	.7	2.1	1.2	33.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10		= OR >5		= OR >2		VSBY (NM) = OR >1		= OR >1/2		= OR >1/4		= OR >50YD		= OR >0	
= OR >6500	2.5	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
= OR >5000	2.6	3.3	3.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
= OR >3500	5.7	8.7	9.5	9.8	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
= OR >2000	13.5	22.8	26.0	26.8	27.2	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
= OR >1000	20.1	33.8	39.3	41.3	43.2	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
= OR >600	22.1	38.2	46.6	49.7	52.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
= OR >300	22.1	38.8	47.7	51.3	53.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
= OR >150	22.1	39.0	48.0	51.7	54.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
= OR >0	22.1	39.2	49.9	55.3	59.0	63.4	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
TOTAL	260	460	586	649	693	744	778	778	778	778	778	778	778	778	778	778

TOTAL NUMBER OF OBS: 1174

PCT FREQ NM <5/8: 33.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.7	4.7	7.4	5.4	4.2	5.6	9.2	7.3	36.2	9.3	1294

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

APRIL

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.2	.9	.7	.3	.6	.6	.0	.1	3.6	
	NO PCP	.3	.1	.2	.4	1.5	.9	.2	.4	.0	.9	5.0	
	TOT %	.6	.2	.4	1.3	2.1	1.2	.8	.9	.0	1.0	8.5	
1/2<1	PCP	.2	.0	.2	.4	.8	.5	.2	.3	.0	.1	2.6	
	NO PCP	.2	.0	.1	.0	.1	.0	.1	.0	.0	.0	.6	
	TOT %	.4	.0	.2	.4	.9	.5	.3	.4	.0	.1	3.2	
1<2	PCP	.6	.3	.2	.4	1.2	.5	.5	.5	.0	.0	4.3	
	NO PCP	.1	.1	.0	.1	.4	.1	.1	.2	.0	.0	1.1	
	TOT %	.7	.4	.2	.5	1.6	.6	.6	.7	.0	.0	5.4	
2<5	PCP	.5	.2	.3	.4	.8	.8	.5	.2	.0	.5	4.2	
	NO PCP	1.0	.5	.5	.7	1.6	.5	.8	1.1	.0	.5	7.1	
	TOT %	1.5	.7	.8	1.1	2.4	1.4	1.3	1.3	.0	.9	11.4	
5<10	PCP	.2	.0	.0	.3	.3	.7	.2	.1	.0	.1	1.5	
	NO PCP	6.8	1.6	1.3	2.7	3.7	2.4	2.6	4.0	.0	1.6	26.6	
	TOT %	7.0	1.6	1.3	2.9	4.0	2.6	2.9	4.1	.0	1.7	28.0	
10+	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	14.1	2.4	2.2	4.7	5.9	2.2	3.4	5.6	.0	3.0	43.4	
	TOT %	14.1	2.4	2.2	4.8	5.9	2.2	3.5	5.6	.0	3.0	43.6	
TOT OBS													1913
TOT PCT													24.3 5.2 5.1 10.9 16.9 8.5 9.4 13.0 .0 6.7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.1	.1	.2	.2	.1	.2	.0	1.0	1.8	
	4-10	.3	.1	.2	.4	.5	.7	.3	.5	.0	.0	3.1	
	11-21	.1	.0	.1	.3	.8	.2	.4	.2	.0	.0	2.2	
	22+	.0	.1	.0	.5	.6	.1	.0	.0	.0	.0	1.2	
	TOT %	.5	.2	.4	1.3	2.1	1.2	.9	.9	.0	1.0	8.3	
1/2<1	0-3	.1	.1	.1	.0	.1	.1	.0	.0	.0	.1	.4	
	4-10	.2	.0	.1	.1	.2	.1	.1	.3	.0	.0	1.1	
	11-21	.6	.0	.1	.4	.4	.3	.1	.0	.0	.0	1.6	
	22+	.1	.0	.0	.2	.3	.0	.1	.1	.0	.0	.9	
	TOT %	1.0	.1	.2	.3	1.0	.5	.4	.4	.0	.1	4.0	
1<2	0-3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.5	.1	.3	.2	.4	.1	.2	.4	.0	.0	2.4	
	11-21	.5	.2	.0	.2	.7	.4	.4	.3	.0	.0	2.7	
	22+	.1	.1	.0	.1	.9	.1	.2	.1	.0	.0	1.5	
	TOT %	1.4	.5	.4	.5	2.0	.6	.8	.9	.0	.0	7.0	
2<5	0-3	.3	.0	.2	.2	.0	.1	.1	.2	.0	.9	2.0	
	4-10	.7	.4	.4	.3	.8	.6	.5	.4	.0	.0	4.2	
	11-21	.9	.3	.2	.6	1.5	.6	.5	.6	.0	.0	5.2	
	22+	.4	.0	.3	.4	.3	.2	.4	.0	.0	.0	2.1	
	TOT %	2.3	.7	.8	1.4	2.7	1.7	1.3	1.7	.0	.9	13.5	
5<10	0-3	.3	.1	.2	.1	.2	.2	.1	.1	.0	1.7	3.1	
	4-10	2.3	.9	.4	.9	1.4	1.0	.9	1.4	.0	.0	9.2	
	11-21	2.7	.5	.6	1.0	1.8	1.1	1.4	2.1	.0	.0	11.3	
	22+	1.4	.0	.0	.7	.4	.2	.2	.3	.0	.0	3.3	
	TOT %	6.7	1.5	1.2	2.8	3.8	2.5	2.6	3.9	.0	1.7	26.8	
10+	0-3	.9	.2	.5	.1	.0	.2	.3	.2	.0	2.9	5.1	
	4-10	5.5	1.6	1.1	2.1	2.8	1.2	2.3	2.7	.0	.0	19.3	
	11-21	4.8	.4	.5	1.6	2.2	.7	.6	2.0	.0	.0	13.0	
	22+	1.2	.0	.1	.7	.6	.0	.1	.3	.0	.0	2.9	
	TOT %	12.4	2.3	2.1	4.5	5.6	2.1	3.3	5.2	.0	2.9	40.3	
TOT OBS													1972
TOT PCT													24.3 5.2 5.2 10.9 17.2 8.6 9.3 13.0 .0 6.4 100.0

APRIL

PERIOD: (PRIMARY) 1954-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	8.4	.4	1.7	8.2	14.1	21.9	6.1	1.1	2.7	1.9	66.7	33.3	474
06009	7.7	1.0	3.1	10.1	15.7	14.3	7.7	.7	1.4	1.4	63.3	36.7	286
12015	12.6	.0	3.1	8.1	17.0	10.3	3.6	.4	1.8	.0	57.0	43.0	223
18021	14.3	.4	2.5	10.1	20.6	18.9	5.9	.0	1.3	.4	74.4	25.6	238
TOT	124	6	30	110	199	213	73	8	24	14	801	420	1221
PCT	10.2	.5	2.5	9.0	16.3	17.4	6.0	.7	2.0	1.1	65.6	34.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	9.3	3.6	5.5	12.9	22.8	46.0	605
06009	8.8	2.8	5.9	12.1	28.2	42.1	354
12015	6.3	5.2	6.5	14.1	29.9	38.0	384
18021	7.7	5.0	9.7	15.9	28.3	33.3	339
TOT	137	69	112	229	449	686	1682
PCT	8.1	4.1	6.7	13.6	26.7	40.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	8.6	14.2	30.8	36.9	32.3	464
06009	7.7	15.0	30.8	34.8	34.4	273
12015	13.3	18.0	35.1	25.6	39.3	211
18021	14.6	22.6	42.5	34.1	23.5	226
TOT	122	196	397	397	380	1174
PCT	10.4	16.7	33.8	33.8	32.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
40/44	.0	.0	.0	.0	.3	.9	.0	.0	4	1.2
39/39	.0	.3	.6	1.2	.9	4.3	2.5	4.0	43	13.9
30/34	.0	.0	.0	.9	2.8	5.3	24.5	24.5	187	57.9
29/29	.0	.0	.0	.9	3.7	1.5	7.1	9.3	73	22.6
20/24	.0	.0	.0	.6	2.5	.0	.6	.6	14	4.3
TOT	0	1	2	12	33	39	112	124	229	100.0
PCT	.0	.3	.6	3.7	10.2	12.1	34.7	38.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.3	.3	.5	.1	.0	.0
3.0	.6	.0	3.1	2.6	1.2	1.1	2.2	.0	.0
12.2	.5	2.4	6.6	10.6	8.1	8.5	7.3	.0	.6
6.0	1.7	.5	3.3	2.6	2.1	2.4	3.6	.0	.3
.8	.4	1.0	.5	.5	.1	.3	.5	.0	.3
22.0	3.3	3.9	13.4	16.6	11.8	12.8	14.9	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	50	46	41	32	24	16	12	32.0	600
06009	50	46	41	32	26	19	17	32.8	358
12015	43	39	37	30	23	17	16	30.1	384
18021	46	43	37	30	23	15	9	30.1	336
TOT	50	45	39	32	24	17	9	31.3	1678

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	3.7	11.1	16.0	35.8	35.3	83	81
06009	.0	4.2	12.6	14.7	29.5	38.9	84	95
12015	.0	5.1	7.7	6.4	42.3	38.5	85	78
18021	.0	8.1	9.5	9.5	71.1	41.9	84	74
TOT	0	17	34	39	113	125	84	328

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974AREA 0016 WEST COAST KAMCHATKA
53.9N 155.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	5	.0	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.5	.3	.2	10	.1	.9
9/10	.0	.0	.0	.0	.0	.0	.3	1.1	.5	.0	19	.1	1.8
7/8	.0	.0	.0	.0	.0	.3	1.5	.9	.2	.0	29	.1	2.7
6	.0	.0	.0	.0	.0	.3	.5	.1	.0	.0	9	.0	.9
5	.0	.0	.0	.0	.0	2.1	2.4	.3	.1	.0	49	.4	4.4
4	.0	.0	.0	.0	.1	2.9	1.0	.2	.0	.0	43	.3	3.7
3	.0	.0	.0	.0	1.1	2.1	.8	.0	.0	.0	40	.4	3.5
2	.0	.0	.0	.0	4.1	4.2	.9	.4	.0	.0	98	1.0	8.6
1	.0	.0	.0	.0	4.0	3.6	.2	.0	.0	.0	80	.3	7.6
0	.0	.0	.0	.3	10.9	3.0	1.2	.0	.0	.0	157	1.2	14.2
-1	.0	.0	.0	1.3	5.8	2.4	.1	.0	.0	.0	97	.7	8.8
-2	.0	.0	.0	4.0	4.2	1.5	.6	.0	.0	.0	105	1.0	9.3
-3	.0	.0	.0	3.2	2.2	.1	.0	.0	.0	.0	56	.1	3.4
-4	.0	.0	.0	4.1	2.5	.6	.2	.0	.0	.0	75	.7	6.7
-5	.0	.0	.9	3.7	1.1	.2	.0	.0	.0	.0	60	.0	5.9
-6	.0	.0	.7	1.3	.5	.1	.0	.0	.0	.0	26	.0	2.6
-7/-8	.0	.0	1.7	1.2	.0	.0	.0	.0	.0	.0	29	.0	2.8
-9/-10	.0	.9	.8	.3	.1	.3	.1	.0	.0	.0	21	.0	2.1
-11/-13	.0	.1	.2	.3	.2	.0	.0	.0	.0	.0	8	.1	.7
-14/-16	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	3	.0	.3
TOTAL	2	6	63	201	374	242	98	35	15	3	1019	6.6	93.4
PCT	.2	.6	4.2	19.7	36.7	23.7	9.6	3.4	1.5	.3	100.0	6.6	93.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	4.4	.8	.0	.0	.0	6.0	.2	1.7	.1	.0	.0	.0	2.0
1-2	.0	3.4	2.2	.0	.0	.0	5.6	.0	1.0	.2	.0	.0	.0	1.2
3-4	.0	1.2	3.3	.2	.0	.0	4.7	.0	.3	.3	.0	.0	.0	.3
5-6	.0	.1	1.1	.5	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.2	.9	.0	.0	1.2	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.6	.2	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.1	8.7	2.1	.0	.0	20.7	.2	2.7	.8	.0	.0	.0	3.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.7	.1	.0	.0	.0	2.2	.5	2.5	.5	.0	.0	.0	3.5
1-2	.1	.5	.9	.0	.0	.0	1.5	.1	1.3	1.7	.0	.0	.0	3.1
3-4	.1	.3	.5	.0	.0	.0	.9	.0	.5	1.4	.5	.0	.0	2.4
5-6	.0	.0	.1	.1	.0	.0	.2	.0	.1	.7	.6	.4	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.1	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.2	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.6	1.6	.1	.0	.0	4.9	.6	4.3	4.8	2.8	.9	.1	13.5

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.4	.1	.0	.0	.0	3.5	.6	1.5	.2	.0	.0	.0	2.2
1-2	.0	2.5	2.1	.0	.0	.0	4.5	.0	1.6	.9	.0	.0	.0	2.5
3-4	.0	.9	2.7	.5	.0	.0	4.1	.0	.5	2.2	.5	.0	.0	3.1
5-6	.0	.3	1.2	.6	.0	.0	2.2	.0	.6	.6	.0	.1	.0	.8
7	.0	.0	.6	.6	.1	.0	1.3	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.5	.2	.0	.7	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.2	.4	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.1	.0	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	6.9	2.9	.4	.0	17.4	.6	3.6	4.2	.9	.2	.0	9.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.4	2.9	.4	.0	.0	.0	3.7	
1-2	.1	2.1	1.4	.0	.0	.0	3.6	.0	2.5	1.9	.0	.0	.0	4.4	
3-4	.1	.9	1.2	.1	.0	.0	2.3	.0	.6	1.0	.6	.0	.0	1.7	
5-6	.0	.2	.6	.1	.0	.0	.9	.0	.2	1.0	.3	.1	.0	1.6	
7	.0	.0	.1	.1	.0	.0	.2	.0	.6	.5	.1	.0	.0	.6	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.3	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.6	.4	.0	.0	.4	
12	.0	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.6	3.5	.7	.0	.0	9.1	.4	6.2	5.0	1.0	.1	.0	12.7	91.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.8	19.3	2.2	.0	.0	.0	32.4	
1-2	.6	14.9	11.2	.0	.0	.0	27.0	
3-4	.2	4.9	12.6	1.8	.0	.0	19.6	
5-6	.0	.9	5.3	2.2	.6	.0	9.0	
7	.0	.1	2.0	2.2	.2	.0	4.6	
8-9	.0	.0	1.4	1.7	.5	.0	3.6	
10-11	.0	.0	.5	1.6	.0	.0	2.1	
12	.0	.1	.1	.1	.1	.1	.6	
13-16	.0	.1	.1	.6	.0	.0	.9	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.1	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	40.4	35.5	10.5	1.6	.1	100.0	812

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	15.3	15.0	5.4	2.4	1.0	.4	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	425	3
6-7	.0	1.5	3.6	4.9	3.2	1.8	1.3	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	168	6
8-9	.0	.5	.7	1.4	1.3	1.0	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	7
10-11	.0	1.6	.5	.3	.3	.1	.3	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	28	6
12-13	.0	.0	.5	.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
>13	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDEX	11.7	3.9	5.3	4.3	1.4	.6	.6	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	273	2
TOTAL	148	217	250	165	83	48	34	9	12	3	1	1	0	1	0	0	0	0	0	974	4
PCT	15.2	22.3	25.7	16.9	8.7	4.9	3.5	.9	1.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

MAY

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.8	.2	.9	.0	3.0	.3	.0	7.2	.6	.0	15.6	.7	.2	.0	75.7
NE	10.7	.6	4.0	.0	4.8	.0	.0	20.1	1.8	.0	8.7	.3	.0	.0	69.1
E	21.5	.0	.0	.0	5.2	.0	.0	26.7	3.8	.0	2.8	.0	.0	.0	66.7
SE	19.8	.0	3.8	.0	9.4	.0	.0	29.0	3.7	.0	14.7	.0	1.1	.0	51.5
S	10.4	.0	4.0	.0	8.1	.2	.0	22.2	2.3	.0	26.4	.3	.2	.0	48.5
SW	2.6	.0	.3	.0	5.0	.0	.0	7.9	1.2	.0	22.8	.3	.9	.0	66.7
W	2.9	.6	.6	.0	8.9	.0	.0	11.8	2.9	.0	15.1	.0	.0	.0	70.2
NW	2.6	.0	1.6	.0	8.0	.0	.3	11.7	.7	.0	18.9	.4	.0	.0	68.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	1.6	2.7	.0	1.6	.0	.0	8.2	.0	.0	19.7	.0	6.0	.0	66.1
TOT PCT	7.0	.2	2.2	.0	6.1	.1	*	15.4	1.7	.0	18.2	.3	.7	.0	63.7
TOT OBS:	2640														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOURLY (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	DUST	NO SIG WEA
0000	5.2	.1	1.5	.0	5.7	.2	.0	12.4	1.5	.0	17.6	.4	1.0	.0		67.1
0600	6.3	.2	1.9	.0	4.5	.0	.0	12.4	1.7	.0	19.3	.3	.9	.0		65.4
1200	10.9	.3	2.5	.0	6.3	.0	.0	19.7	2.5	.0	15.6	.3	.6	.0		61.3
1800	5.9	.4	3.6	.0	8.4	.2	.2	18.4	1.1	.0	20.5	.2	.4	.0		59.5
TOT PCT TOT OBS:	6.9 2723	.2	2.2	.0	6.1	.1	*	15.3	1.7	.0	18.1	.3	.8	.0		63.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	4.6	10.8	6.2	1.2	.0	*		22.9	9.2		20.0	25.7	23.4	24.6	24.2	25.3	19.7	20.3
NE	1.7	3.3	1.2	.4	.0	.0		6.6	8.2		6.7	5.7	3.6	5.1	6.7	7.3	10.7	7.1
E	1.5	2.0	.8	.1	.1	.0		4.4	7.6		4.1	3.7	2.9	4.2	4.5	6.0	5.8	5.1
SE	1.6	3.5	3.0	1.6	.1	.0		9.8	12.4		7.1	8.4	9.5	10.7	8.2	11.6	11.7	15.1
S	2.9	7.3	8.9	3.1	*	.0		22.2	12.6		27.4	21.7	21.8	20.1	19.0	19.3	23.5	20.2
SW	1.6	4.0	2.0	.7	.0	.0		8.3	9.6		7.1	10.7	9.2	9.2	7.1	7.8	8.1	8.0
W	1.5	2.7	1.1	.5	.1	.0		5.9	9.4		5.9	7.4	5.5	7.0	5.9	6.2	4.1	5.0
NW	2.7	6.5	3.6	.7	.1	.0		13.5	9.0		10.3	15.2	17.3	16.4	14.3	13.9	8.8	14.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0		11.3	1.5	4.9	2.7	10.1	2.6	7.6	5.9
TOT OBS	712	1171	783	243	15	1	2925		9.6		586	336	385	301	397	302	354	264
TOT PCT	24.3	40.0	26.8	8.3	.5	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	10.0	9.6	3.2	.2	*		22.9	9.2	22.1	25.0	24.7	19.9	
NE	3.8	2.0	.7	.2	.0		6.6	8.2	6.3	4.3	7.0	9.2	
E	2.7	1.3	.3	.2	.0		4.4	7.6	4.0	3.4	5.2	5.5	
SE	3.4	3.5	2.0	.9	.0		9.8	12.4	7.6	10.0	9.7	13.1	
S	6.3	8.7	6.2	.9	*		22.2	12.6	25.4	21.1	19.1	22.1	
SW	3.6	3.1	1.4	.1	.0		8.3	9.6	8.4	9.2	7.4	8.1	
W	2.9	2.1	.5	.4	.0		5.9	9.4	6.5	6.1	6.0	4.5	
NW	6.5	5.2	1.5	.2	.0		13.5	9.0	12.1	16.9	14.1	11.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.4						6.4	.0	7.7	3.9	6.9	6.6	
TOT OBS	1374	1040	461	88	2	2925		9.6	922	686	699	618	
TOT PCT	45.6	35.6	15.8	3.0	.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

MAY

AREA 0016 WEST COAST KAMCHATKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00103	7.7	15.8	41.4	27.4	7.4	.2	.0	9.4	100.0	922
06109	3.9	17.1	38.6	29.4	10.2	.7	.0	10.4	100.0	686
12115	6.9	18.7	40.3	24.2	9.0	.7	.1	9.3	100.0	699
18121	6.6	21.2	39.2	23.7	6.8	.5	.0	9.0	100.0	618
TOT	187	525	1171	783	243	15	1	9.6		2925
PCT	6.4	17.9	40.0	26.8	8.3	.5	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.2	2.4	3.9	8.3		5.3
NE	1.0	.4	1.6	3.7		6.3
E	.3	.3	.7	2.0		6.7
SE	.6	.4	1.5	7.7		7.2
S	1.6	.5	2.9	18.5		7.2
SW	1.6	.4	1.3	5.1		6.1
W	1.0	.3	1.2	3.5		6.2
NW	2.7	1.1	1.8	7.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.4	.4	2.3	5.2		6.3
TOT OBS	245	97	276	978	1596	6.3
TOT PCT	15.4	6.1	17.3	61.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT>NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	130	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	399	999	1999	3499	4999	6499	7999			
N	2.7	.2	.6	1.0	2.3	2.0	1.2	.4	.3	.1	8.8	
NE	.6	.0	.1	.8	1.6	1.0	.2	.1	.4	.0	1.9	
E	.3	.0	.1	.1	.7	1.1	.1	.1	.1	.1	.8	
SE	2.4	.1	*	1.7	2.6	1.7	.3	.0	.1	.0	1.4	
S	7.6	.3	.5	2.4	3.9	4.2	1.1	.2	.3	.1	3.0	
SW	2.0	.0	.1	.3	1.6	1.3	.3	*	.2	.0	2.4	
W	1.4	.0	*	.6	1.0	.8	.5	.0	.1	.0	1.5	
NW	2.9	.0	.1	1.1	2.5	1.1	.3	.1	.3	.0	4.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1	.0	.1	.2	2.0	1.4	.4	.2	.1	.2	2.6	
TOT OBS	354	9	25	136	288	233	68	14	32	6	431	1596
TOT PCT	22.2	.6	1.6	8.5	18.0	14.6	4.3	.9	2.0	.4	27.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (FM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	2.3	2.4	2.5	2.5	2.5	2.5	2.5
= OR >5000	2.2	2.8	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	4.5	6.6	7.2	7.5	7.5	7.5	7.5	7.5
= OR >2000	12.1	18.2	20.7	21.6	21.9	21.9	21.9	21.9
= OR >1000	17.0	28.5	36.2	38.4	39.2	39.7	39.7	39.7
= OR >600	17.5	31.1	42.2	45.6	46.7	47.7	47.7	47.7
= OR >300	17.5	31.7	43.5	47.0	48.2	49.2	49.3	49.4
= OR >150	17.6	31.9	43.9	47.4	48.6	49.8	49.8	49.9
= OR >0	17.8	32.2	46.7	52.3	55.9	62.9	72.0	72.5
TOTAL	288	537	756	846	905	1019	1165	1174

TOTAL NUMBER OF OBS: 1619

PCT FREQ NH <5/8: 27.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
8.4	5.3	6.1	3.0	4.2	3.3	6.0	6.9	36.4	1768

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

MAY

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.3	.6	1.4	.2	.3	.3	.0	.1	3.6	
	NO PCP	2.7	.3	.1	1.0	4.2	1.4	.6	1.8	.0	1.0	13.0	
	TOT %	2.9	.4	.4	1.6	5.6	1.6	.9	2.1	.0	1.1	16.6	
1/2<1	PCP	.1	.1	.2	.6	.9	.1	.1	.4	.0	*	2.4	
	NO PCP	.2	*	*	.1	.6	.2	.1	.2	.0	.2	1.7	
	TOT %	.2	.2	.2	.7	1.5	.2	.2	.5	.0	.3	4.1	
1<2	PCP	.4	.3	.1	.6	.9	.2	.1	.3	.0	.1	3.0	
	NO PCP	.3	.1	*	.4	.6	.1	.1	.3	.0	.1	2.0	
	TOT %	.7	.4	.1	1.0	1.5	.3	.2	.6	.0	.2	4.9	
2<5	PCP	.4	.2	.3	.7	1.0	.1	.2	.4	.0	.2	3.5	
	NO PCP	1.2	.4	.1	1.2	2.2	.7	.7	.9	.0	.7	8.1	
	TOT %	1.7	.6	.4	1.8	3.2	.8	.9	1.3	.0	.9	11.6	
5<10	PCP	.4	.5	.1	.3	.7	.1	*	.2	.0	.2	2.5	
	NO PCP	6.9	1.4	1.0	2.6	4.9	2.4	2.0	4.1	.0	1.0	25.8	
	TOT %	7.0	2.0	1.1	2.9	5.5	2.5	2.0	4.2	.0	1.1	28.3	
10+	PCP	.1	*	.1	.1	.2	*	*	*	.0	.1	.7	
	NO PCP	9.7	3.0	1.7	1.9	4.9	2.7	1.9	4.5	.0	3.4	23.7	
	TOT %	9.8	3.0	1.8	1.9	5.1	2.4	1.9	4.5	.0	3.5	24.4	
TOT OBS		22.2	6.6	4.0	10.0	22.4	8.2	6.2	13.3	.0	7.0	100.0	2630
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	1.0	.2	.2	.3	.6	.5	.1	.6	.0	1.1	4.8	
	4-10	1.9	.3	.2	.6	1.5	.8	.7	1.0	.0		7.1	
	11-21	.6	*	*	.4	2.5	.3	*	.7	.0		4.7	
	22+	*	*	.0	.2	1.0	.1	.1	*	.0		1.4	
	TOT %	3.6	.6	.6	1.7	5.6	1.7	.9	2.4	.0	1.1	18.0	
1/2<1	0-3	*	*	.1	.1	.1	.1	.1	.1	.0	.2	.9	
	4-10	.1	*	.1	.2	.4	.1	.1	.2	.0		1.2	
	11-21	*	.0	*	.2	.7	.1	.1	.1	.0		1.3	
	22+	*	.1	.0	.2	.2	.0	*	*	.0		.6	
	TOT %	.2	.2	.2	.7	1.4	.3	.2	.5	.0	.2	4.0	
1<2	0-3	.1	.1	.1	.2	.1	*	*	.1	.0	.1	.8	
	4-10	.4	.3	.1	.3	.5	.2	.1	.4	.0		2.3	
	11-21	.2	.1	*	.3	.6	.2	*	.1	.0		1.6	
	22+	.1	.0	.0	.3	.2	.1	.1	.2	.0		.9	
	TOT %	.9	.5	.2	1.0	1.5	.4	.3	.7	.0	.1	5.6	
2<5	0-3	.6	.3	.2	.2	.5	.3	.2	.4	.0	.9	3.7	
	4-10	1.3	.4	.3	.6	1.2	.7	.3	1.0	.0		5.7	
	11-21	.7	.1	.1	.8	1.7	.1	.4	.5	.0		4.4	
	22+	.1	.1	.2	.5	.3	.1	.1	.2	.0		1.7	
	TOT %	3.0	.9	.7	2.1	3.8	1.2	1.0	2.0	.0	.9	15.3	
5<10	0-3	1.2	.4	.4	.4	.8	.1	.4	.7	.0	1.0	5.4	
	4-10	2.7	.8	.4	.9	1.9	1.1	.7	2.1	.0		10.6	
	11-21	1.9	.3	.2	.9	1.8	.7	.4	1.0	.0		7.2	
	22+	.5	.2	*	.4	.7	.4	.3	.1	.0		2.6	
	TOT %	6.3	1.7	1.0	2.6	5.2	2.2	1.8	3.9	.0	1.0	25.7	
10+	0-3	1.3	.5	.3	.4	.6	.6	.7	.9	.0	3.1	8.3	
	4-10	4.4	1.5	1.0	.9	1.8	1.2	.9	1.8	.0		13.3	
	11-21	2.8	.7	.3	.4	1.6	.6	.1	1.1	.0		7.6	
	22+	.5	*	.0	*	.6	.1	.0	.1	.0		1.3	
	TOT %	9.0	2.7	1.7	1.8	4.7	2.5	1.7	3.9	.0	3.1	31.1	
TOT OBS		23.0	6.6	4.4	9.8	22.1	8.4	5.9	13.4	.0	6.4	100.0	2859
TOT PCT													

MAY

PERIOD: (PRIMARY) 1938-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	16.2	.3	2.1	8.2	17.0	20.5	5.1	.8	2.8	.3	73.4	26.6	610
06009	19.9	1.0	1.5	9.6	17.9	11.0	3.7	1.0	.7	.5	66.7	33.3	408
12015	31.3	.3	.6	6.6	12.3	8.7	2.4	.9	1.8	.6	65.7	34.3	332
18021	25.5	.6	1.8	8.9	23.7	12.0	4.6	.6	2.5	.3	80.6	19.4	325
TOT	367	9	27	140	295	238	69	14	34	7	1200	475	1675
PCT	21.9	.5	1.6	8.4	17.6	14.2	4.1	.8	2.0	.4	71.6	28.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	16.3	4.0	5.7	12.8	22.9	38.3	959
06009	18.6	3.3	4.8	15.0	26.1	32.3	694
12015	17.8	3.9	5.4	17.5	29.1	26.4	709
18021	20.4	5.1	6.5	17.1	25.3	25.8	633
TOT	540	121	167	459	767	941	2995
PCT	18.0	4.0	5.6	15.3	25.6	31.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	16.7	22.7	41.4	35.0	23.6	594
06009	20.8	25.7	44.2	25.1	30.7	394
12015	33.3	35.6	52.6	19.6	27.9	312
18021	25.7	30.1	53.0	29.2	17.9	319
TOT	367	443	753	461	405	1619
PCT	22.7	27.4	46.3	28.5	25.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.5	.0	.0	.0	.0	.0	2	.5
45/49	.0	.0	.0	.2	.7	.2	1.7	.5	14	3.3
40/44	.0	.0	.0	.0	.2	3.8	5.9	4.5	61	14.4
35/39	.0	.0	.0	.2	.2	1.2	9.2	23.7	155	36.6
30/34	.0	.0	.0	.0	.2	1.2	5.2	34.4	174	41.0
25/29	.0	.0	.0	.0	.0	.0	.2	4.0	18	4.2
TOTAL	0	0	2	2	6	27	94	293	424	100.0
PCT	.0	.0	.5	.5	1.4	6.4	22.2	69.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0
45/49	1.1	.1	.2	.5	.2	.0	.2	.5	.0	.5
40/44	2.2	.8	.2	2.3	6.1	.4	.0	1.3	.0	1.2
35/39	6.3	2.7	1.7	3.5	11.5	2.5	1.1	3.4	.0	4.0
30/34	6.5	2.2	.4	5.4	12.4	4.7	3.5	5.2	.0	.7
25/29	2.2	.0	.0	.0	.2	.7	.0	.4	.0	.7
TOTAL	18.4	5.8	2.5	11.6	30.5	8.6	4.8	10.7	.0	7.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	55	48	37	32	28	26	38.6	963
06009	64	54	46	37	31	29	28	37.9	698
12015	50	44	41	36	30	28	23	35.5	713
18021	63	46	43	36	30	27	24	35.5	634
TOT	64	54	46	36	30	28	23	37.0	3010

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	2.8	10.1	23.9	62.4	90	109
06009	.0	.0	.8	9.0	27.0	63.1	91	122
12015	.0	1.0	1.0	1.0	19.2	77.9	93	104
18021	.0	2.1	1.0	5.2	16.5	75.3	93	97
TOT	0	4	6	28	95	299	92	432

MAY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

TABLE 17

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	43 48	49 52	53 56	57 60	61 64	TOT	W FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	4	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	6	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	4	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.2	.3	.5	.0	.0	19	.1	.9
11/13	.0	.0	.0	.0	.0	.2	1.3	.7	.3	.0	.0	32	.4	2.2
9/10	.0	.0	.0	.0	.2	.9	1.6	.2	.1	.0	.0	39	.6	2.4
7/8	.0	.0	.0	.1	.6	2.3	1.3	.1	.1	.0	.0	87	.6	3.8
6	.0	.0	.0	.1	2.0	.8	.1	.0	.0	.0	.0	58	.2	2.7
5	.0	.0	.0	.6	3.3	3.4	.9	.1	.0	.0	.0	163	1.0	7.2
4	.0	.0	.1	1.7	4.9	2.4	.7	.0	.0	.0	.0	192	1.2	8.5
3	.0	.0	.1	1.7	1.4	.4	.1	.0	.0	.0	.0	73	.6	3.1
2	.0	.0	.6	7.7	6.2	2.2	.2	.0	.0	.0	.0	335	3.7	13.2
1	.0	.0	.9	4.5	1.8	.5	.0	.0	.0	.0	.0	152	1.9	5.8
0	.0	.2	3.4	9.1	4.0	1.0	.2	.1	.0	.0	.0	355	3.4	14.5
-1	.0	.1	2.1	2.0	.9	.2	.1	.0	.0	.0	.0	103	1.3	3.9
-2	.0	.3	2.5	3.0	1.3	.2	.1	.0	.0	.0	.0	144	1.5	5.8
-3	.0	.2	.6	.9	.4	.0	.0	.0	.0	.0	.0	39	.6	1.4
-4	.0	.2	1.1	1.3	.3	.1	.0	.0	.0	.0	.0	59	.7	2.3
-5	.0	.3	.9	.6	.3	.0	.0	.0	.0	.0	.0	40	.4	1.7
-6	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	8	.2	.3
-7/-8	.1	.3	.1	.3	.1	.3	.0	.0	.0	.0	.0	21	.2	.9
-9/-10	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
-11/-13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.1	.0
-14/-16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	35	241	665	545	297	136	26	21	3	8	1979	366	1613
PCT	.1	1.8	12.2	33.6	27.5	15.0	6.9	1.3	1.1	.2	.4	100.0	18.5	81.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.6	.4	.0	.0	.0	4.8	.3	1.7	.2	.0	.0	.0	2.3
1-2	.2	3.2	.0	.0	.0	.0	7.0	.1	1.3	.4	.0	.0	.0	1.8
3-4	.0	.4	2.0	.1	.0	.0	2.9	.0	.2	.6	.2	.0	.0	1.1
5-6	.1	.1	1.3	.9	.0	.0	2.4	.0	.0	.1	.2	.0	.0	.3
7	.0	.0	1.2	.7	.0	.0	1.9	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.8	8.4	2.5	.0	.1	19.9	.5	3.3	1.5	.5	.0	.0	5.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.2	.0	.0	.0	1.8	.7	1.6	.1	.0	.0	.0	2.3
1-2	.1	.4	.4	.0	.0	.0	.9	.1	1.4	1.3	.0	.0	.0	2.8
3-4	.1	.1	.2	.0	.0	.0	.4	.0	.8	.8	.5	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.5	.0	.0	1.1
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.8	.9	.1	.0	.0	3.3	.8	3.1	2.7	1.2	.0	.0	7.8

PERIOD: (OVER-ALL) 1963-1974

MAY
TABLE 18 (CONT)AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	3.7	.8	.0	.0	.0	5.3	.8	2.4	.5	.0	.0	.0	3.7	
1-2	.1	3.1	2.5	.0	.0	.0	5.7	.1	1.3	.8	.0	.0	.0	2.1	
3-4	.0	1.5	4.5	1.4	.0	.0	7.3	.0	.0	.5	.1	.0	.0	.6	
5-6	.0	.3	2.3	1.0	.0	.0	3.6	.0	.1	.4	.*	.0	.0	.5	
7	.0	.0	1.5	1.9	.0	.0	3.4	.0	.0	.3	.3	.0	.0	.6	
8-9	.0	.0	.7	.3	.0	.0	1.0	.0	.0	.0	.*	.0	.0	.*	
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.*	.2	.0	.0	.2	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.*	.0	.0	.*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	8.5	12.5	5.0	.0	.0	27.1	.9	3.8	2.5	.7	.0	.0	7.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.1	.1	.0	.0	.0	1.4	.4	2.6	.2	.0	.0	.0	3.1	
1-2	.2	1.7	.6	.0	.0	.0	2.4	.1	2.1	2.0	.0	.0	.0	4.3	
3-4	.0	.1	.6	.0	.0	.0	.7	.0	.8	1.8	.3	.0	.0	2.9	
5-6	.1	.0	.2	.1	.0	.0	.4	.*	.4	1.4	.2	.0	.0	2.1	
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.1	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.0	1.6	.1	.0	.0	5.1	.6	6.2	5.7	.8	.1	.0	13.3	89.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.2	17.9	2.4	.0	.0	.0	34.5	
1-2	1.2	14.6	11.4	.0	.0	.0	27.2	
3-4	.2	3.5	11.0	2.6	.0	.0	17.3	
5-6	.2	1.1	6.1	3.0	.0	.0	10.4	
7	.0	.1	3.3	3.2	.0	.0	6.6	
8-9	.0	.1	1.0	.7	.0	.0	1.8	
10-11	.0	.0	.5	.9	.1	.0	1.5	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.1	.0	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.8	37.5	35.7	10.8	.1	.1	100.0	936

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	4.7	12.1	10.8	9.4	2.6	.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	486	3
6-7	.0	2.1	3.0	3.4	2.7	1.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	5
8-9	.0	.5	.7	1.5	1.8	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	6
10-11	.0	.6	.2	.3	.5	.2	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	29	8
12-13	.0	.0	1.6	.4	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	4
>13	.0	.0	.0	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDEX	10.4	3.7	9.6	9.6	3.7	.6	.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	488	3
TOTAL	195	258	333	249	130	40	27	7	3	1	1	0	1	0	0	0	0	0	0	1285	4
PCT	15.2	19.9	25.9	20.9	11.7	3.1	2.1	.5	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

JUNE

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	5.4	.2	1.0	.0	.0	.0	.0	6.5	.4	.0	25.7	.2	.2	.0	67.0
NE	12.7	.0	.8	.0	.0	.0	.0	13.5	.0	.0	19.0	1.5	.0	.0	66.0
E	14.3	.0	3.2	.0	.0	.0	.0	19.5	.0	.0	9.5	.0	.0	.0	71.0
SE	24.1	.0	4.6	.0	.0	.0	.0	28.5	2.3	.0	17.3	.3	.0	.0	51.6
S	22.3	.2	4.7	.0	.6	.0	.0	27.6	1.8	.0	18.7	1.2	.2	.1	50.3
SW	9.2	.4	2.0	.0	.1	.0	.0	11.7	.6	.0	21.5	.5	.6	.0	65.1
W	5.7	.0	2.0	.0	.0	.0	.0	7.8	.2	.0	25.0	1.4	.3	.0	65.2
NW	5.8	.2	1.0	.0	.0	.0	.0	7.0	.8	.0	28.1	.8	.2	.0	63.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.0	1.2	.0	.0	.0	.0	4.1	.6	.0	30.8	.6	.0	.0	63.9
TOT PCT	11.7	.2	2.4	.0	.2	.0	.0	14.4	.9	.0	23.0	.8	.2	*	60.7
TOT OBS:	3189														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	10.4	.0	1.9	.0	.2	.0	.0	12.3	1.2	.0	21.9	.9	.1	.0		63.6
06009	12.4	.1	1.3	.0	.1	.0	.0	14.2	.7	.0	19.5	.4	.1	.0		65.1
12015	13.3	.1	2.8	.0	.1	.0	.0	16.7	.4	.0	20.1	.8	.3	.0		61.8
18021	11.2	.1	3.6	.0	.1	.0	.0	15.1	1.3	.0	31.5	.8	.4	.1		50.8
TOT PCT TOT OBS:	11.7 3214	.2	2.4	.0	.2	.0	.0	14.4	.9	.0	23.1	.7	.2	*		60.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	3.4	11.6	4.0	.6	.0	.0		19.6	8.3		14.8	17.9	20.2	21.5	22.8	21.1	17.5	22.2
NE	1.4	2.2	.4	.0	.0	.0		4.0	5.9		3.2	2.4	2.2	3.5	4.4	6.4	4.2	6.5
E	.7	.8	.3	.0	.0	.0		1.8	6.1		1.8	.8	.7	1.3	1.5	2.5	2.9	2.9
SE	1.1	2.9	1.5	.6	.0	.0		6.1	10.2		4.8	4.1	2.9	5.3	8.1	8.1	7.8	8.7
S	2.8	10.2	9.0	3.2	.2	.0		25.5	12.3		25.3	26.8	21.5	21.2	21.7	26.4	28.1	32.6
SW	2.6	7.0	1.9	.1	.0	.0		11.7	7.3		13.9	14.1	15.2	10.0	11.8	8.5	12.6	6.9
W	2.4	6.1	.8	.0	.0	.0		9.3	5.9		9.9	11.8	13.1	10.8	7.4	8.0	7.9	5.0
NW	3.4	10.4	3.3	.3	.1	.0		17.5	7.6		16.1	19.5	20.9	24.4	17.2	16.6	13.0	11.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0		10.2	2.6	3.2	2.1	5.1	2.5	6.0	3.3
TOT OBS	789	1806	742	173	12	0	3522		8.4		397	498	409	430	390	443	397	418
TOT PCT	22.4	51.3	21.1	4.9	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	9.6	7.9	1.9	.1	.0		19.6	8.3	16.3	20.9	21.9	19.9
NE	2.6	1.2	.2	.0	.0		4.0	5.9	2.8	2.9	3.4	5.3
E	1.1	.6	.1	.0	.0		1.8	6.1	1.3	1.0	2.0	2.9
SE	2.3	2.6	1.0	.1	.0		6.1	10.2	4.5	4.1	8.1	8.3
S	7.1	11.1	5.9	1.3	.1		25.5	12.3	26.0	21.4	24.2	30.4
SW	6.3	4.7	.7	.0	.0		11.7	7.3	14.0	12.5	10.0	9.7
W	6.4	2.7	.2	.0	.0		9.3	5.9	10.8	11.9	7.7	6.4
NW	9.3	7.0	1.0	.2	.0		17.5	7.6	17.7	22.7	16.9	12.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	8.6	2.6	3.7	4.7
TOT OBS	1738	1337	385	60	2	3522		8.4	1035	839	833	815
TOT PCT	49.3	38.0	10.9	1.7	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	6.6	16.8	50.6	20.6	5.2	.2	.0	8.2	100.0	1035
06009	2.6	13.7	53.8	25.3	4.4	.2	.0	9.1	100.0	839
12015	3.7	18.8	51.9	20.6	4.6	.4	.0	8.4	100.0	833
18021	4.7	22.6	49.0	17.8	5.4	.6	.0	8.0	100.0	815
TOT	139	630	1806	742	173	12	0	8.4		3522
PCT	4.5	17.9	51.3	21.1	4.9	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.5	3.9	11.0		6.2
NE	.3	.9	1.3	2.3		6.9
E	.2	.1	.3	1.1		6.5
SE	.8	.7	1.3	4.4		7.1
S	.9	.7	3.1	18.6		7.4
SW	.4	.3	1.6	7.8		7.3
W	.9	.6	2.1	6.7		6.7
NW	2.1	1.0	3.1	11.2		6.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.5	1.6	4.8		6.6
TOT OBS	160	101	346	1277	1884	6.8
TOT PCT	8.5	5.4	18.4	67.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <3/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	4.0	.1	.5	2.1	3.3	2.1	.7	.5	.2	.1	5.7	
NE	.4	.0	.8	.8	1.0	.7	.3	.1	.1	.0	.7	
E	.1	.1	.0	.1	.4	.2	.8	.1	.0	.0	.6	
SE	1.0	.2	.7	1.0	1.6	.2	.2	.1	.0	.0	1.4	
S	5.3	.2	1.6	3.1	5.5	2.5	1.0	.2	.3	.0	3.5	
SW	1.4	.1	.5	.8	2.9	1.8	.5	.2	.2	.0	1.8	
W	2.2	.0	.2	1.0	2.2	1.3	.5	.2	.2	.0	2.4	
NW	3.3	.2	.4	1.5	4.1	2.5	.6	.1	.3	.1	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	.1	.2	.4	1.8	1.0	.3	.3	.2	.1	1.6	
TOT OBS	366	17	78	203	431	231	76	32	28	4	418	1884
TOT PCT	19.4	.9	4.1	10.8	22.9	12.3	4.0	1.7	1.5	.2	22.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
>5000	2.2	2.8	3.2	3.2	3.2	3.4	3.4	3.4
>3500	4.5	6.3	7.0	7.1	7.1	7.3	7.4	7.4
>2000	9.6	16.1	18.6	19.1	19.2	19.6	19.8	19.8
>1000	14.4	31.2	39.6	40.8	41.6	42.6	42.9	43.0
>600	16.3	36.1	48.3	50.3	51.2	52.6	53.0	53.1
>300	16.7	37.8	51.1	53.7	54.9	56.5	57.0	57.0
>150	16.7	37.8	51.2	54.3	55.7	57.4	57.8	57.9
>0	16.8	38.0	52.0	56.1	58.5	65.7	75.9	77.5
TOTAL	310	703	961	1037	1082	1214	1402	1432

TOTAL NUMBER OF OBS: 1848

PCT FREQ NH <5/8: 22.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
6.7	3.8	3.9	3.6	3.8	4.0	7.4	8.4	39.8	18.5	1960

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	*	*	1.0	.2	.1	.1	.0	.0	1.5	
	NO PCP	3.5	.5	.1	.7	3.6	1.6	1.9	3.1	.0	1.3	16.2	
	TOT %	3.7	.5	.1	.7	4.5	1.8	1.9	3.2	.0	1.3	17.7	
1/2<1	PCP	.2	.0	.0	.2	1.2	*	.1	.1	.0	.0	1.7	
	NO PCP	.7	.1	*	.1	.6	.3	.2	.7	.0	.1	2.7	
	TOT %	.8	.1	*	.3	1.8	.3	.3	.8	.0	.1	4.4	
1<2	PCP	.2	.1	.1	.5	2.0	.3	.1	.2	.0	.0	3.5	
	NO PCP	.4	*	*	.2	.6	.1	.1	.3	.0	.1	1.8	
	TOT %	.6	.2	.1	.7	2.6	.4	.2	.5	.0	.1	5.3	
2<5	PCP	.2	.1	.1	.6	1.8	.4	.3	.3	.0	.0	3.8	
	NO PCP	1.3	.3	.3	.5	1.9	.9	.9	.9	.0	.6	7.5	
	TOT %	1.5	.4	.4	1.1	3.6	1.3	1.3	1.2	.0	.6	11.4	
5<10	PCP	.3	.2	.1	.1	.7	.3	.1	.1	.0	.2	2.2	
	NO PCP	5.0	1.1	.4	1.3	5.3	3.4	2.4	4.5	.0	1.1	24.6	
	TOT %	5.3	1.4	.5	1.4	6.0	3.7	2.5	4.7	.0	1.3	26.8	
10+	PCP	.3	.1	.1	.3	.5	.1	.1	.3	.0	*	1.8	
	NO PCP	7.7	1.5	.5	1.6	6.4	3.5	3.4	5.9	.0	2.0	32.6	
	TOT %	8.1	1.7	.6	1.9	6.9	3.6	3.5	6.2	.0	2.1	34.4	
TOT OBS													3153
TOT PCT		20.0	4.1	1.6	6.1	25.4	11.1	9.6	16.6	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.2	.1	.2	.6	.6	.3	.4	.0	.9	3.9	
	4-10	2.2	.3	.2	.3	1.7	1.3	1.2	1.9	.0		9.1	
	11-21	.5	*	.0	.1	1.3	.2	.2	.7	.0		3.0	
	22+	.0	*	.0	.1	.9	*	.0	.0	.0		1.1	
	TOT %	3.2	.5	.3	.9	4.5	2.2	1.7	3.0	.0	.9	17.2	
1/2<1	0-3	.3	.1	.0	.1	.3	.1	*	.2	.0	.1	1.1	
	4-10	.5	*	*	*	.5	.2	.2	.5	.0		1.9	
	11-21	.1	.0	.0	.1	.5	*	*	.2	.0		.9	
	22+	.0	.0	.0	.1	.4	.0	.0	.0	.0		.3	
	TOT %	.9	.1	*	.3	1.7	.3	.3	.9	.0	.1	4.4	
1<2	0-3	.3	*	.1	.0	.2	.2	.2	.5	.0	.2	1.7	
	4-10	.5	.2	*	.4	.9	.3	.1	.6	.0		3.1	
	11-21	.1	*	.0	.3	1.2	.1	.1	.1	.0		1.8	
	22+	*	.0	.0	.1	.6	.0	*	*	.0		.8	
	TOT %	.9	.2	.1	.8	2.9	.6	.4	1.3	.0	.2	7.4	
2<5	0-3	.4	.1	.2	.1	.4	.4	.4	.8	.0	.6	3.5	
	4-10	1.7	.3	.2	.5	1.6	1.1	1.2	1.9	.0		8.4	
	11-21	.5	.1	.1	.5	2.2	.6	.2	.3	.0		4.6	
	22+	.1	*	.0	.2	.7	*	.0	.1	.0		1.1	
	TOT %	2.7	.5	.4	1.3	4.8	2.1	1.9	3.1	.0	.6	17.6	
5<10	0-3	.7	.4	.2	.2	.5	.5	.5	.6	.0	1.0	4.6	
	4-10	2.6	.6	.2	.8	2.4	2.2	1.4	2.7	.0		12.9	
	11-21	1.0	.2	.1	.3	2.1	.5	.2	.6	.0		5.0	
	22+	.3	.0	.0	.1	.4	.1	*	.2	.0		1.0	
	TOT %	4.7	1.2	.4	1.3	5.4	3.3	2.1	4.1	.0	1.0	23.4	
10+	0-3	1.2	.6	.2	.4	.9	.8	.9	.9	.0	1.7	7.7	
	4-10	4.1	.7	.3	.8	3.2	2.0	2.0	2.9	.0		16.0	
	11-21	1.6	.1	.1	.2	1.6	.5	.1	1.4	.0		5.6	
	22+	.2	.0	.0	.1	.4	*	.0	.1	.0		.8	
	TOT %	7.1	1.5	.5	1.6	6.1	3.3	3.0	5.3	.0	1.7	30.0	
TOT OBS													3446
TOT PCT		19.5	4.0	1.8	6.1	25.4	11.7	9.4	17.6	.0	4.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	130 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	16.0	.8	4.0	10.3	22.1	14.5	5.5	1.2	3.3	.3	78.0	22.0	601
06609	14.0	.7	3.5	9.6	22.1	13.3	4.8	2.0	.4	.2	70.5	29.5	458
12615	22.9	.2	5.0	11.1	23.2	9.0	1.7	2.6	.7	.2	76.6	23.4	423
18621	26.7	1.9	4.0	11.8	24.1	11.3	3.3	1.2	.7	.0	85.1	14.9	423
TOT	370	17	78	203	434	234	76	32	28	4	1476	429	1905
PCT	19.4	.9	4.1	10.7	22.8	12.3	4.0	1.7	1.5	.2	77.5	22.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	16.0	3.9	5.7	16.7	21.8	35.9	1074
06609	14.0	4.8	5.4	18.2	23.9	33.9	859
12615	17.4	4.1	9.0	17.3	26.1	26.2	852
18621	23.2	5.0	9.3	16.4	22.4	23.7	840
TOT	635	160	262	620	849	1099	3625
PCT	17.5	4.4	7.2	17.1	23.4	30.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00603	16.4	25.0	46.0	34.9	19.1	585
06609	14.5	21.7	42.3	31.5	25.2	448
12615	23.5	30.9	49.9	29.4	20.7	405
18621	27.1	37.3	58.5	27.6	13.9	410
TOT	367	521	905	577	366	1848
PCT	19.9	28.2	49.0	31.2	19.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.1	.3	.5	.6	.2	15	1.7
50/54	.0	.0	.0	.0	.7	2.4	5.4	3.5	104	12.0
45/49	.0	.0	.0	.1	.5	1.8	15.0	23.3	370	42.7
40/44	.0	.0	.0	.0	.0	.5	5.4	29.7	308	35.6
35/39	.0	.0	.0	.0	.0	.1	1.2	6.5	67	7.7
30/34	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	0	2	13	46	239	566	866	100.0
PCT	.0	.0	.0	.2	1.5	5.3	27.6	65.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.3	.0	.0	.1	.3	.2	.2	.2	.0	.5
50/54	2.2	1.1	.3	.4	1.8	.7	1.3	2.5	.0	1.7
45/49	8.8	2.0	1.2	4.2	7.9	3.6	5.3	7.2	.0	2.5
40/44	6.0	.7	.2	3.1	12.6	3.4	2.7	6.6	.0	.3
35/39	1.6	.2	.1	.3	1.0	.8	1.3	1.9	.0	.6
30/34	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	19.1	4.0	1.7	8.1	23.5	8.7	10.8	18.5	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	68	61	57	46	37	35	32	46.6	1074
06609	68	57	54	46	37	34	33	45.6	868
12615	59	52	50	43	36	34	30	43.2	875
18621	57	54	50	43	37	34	32	43.4	854
TOT	68	59	54	45	37	34	30	44.8	3671

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.5	2.7	10.4	33.5	52.9	89	221
06609	.0	.5	2.7	6.8	31.1	58.9	90	219
12615	.0	.0	.4	1.3	26.9	71.4	93	234
18621	.0	.0	.0	2.5	18.3	79.2	94	197
TOT	0	2	13	46	241	569	91	871

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

JUNE

AREA 0016 WEST COAST KAMCHATKA
54.2N 159.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	M FOG	MD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	3	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	4	.0	.2
14/16	.0	.0	.0	.0	.1	.3	.1	.2	.2	.0	22	.2	.7
11/13	.0	.0	.0	.0	.6	.9	1.1	.9	.3	.0	96	.7	3.1
9/10	.0	.0	.0	.1	.9	1.1	1.4	.2	*	.0	93	.4	3.3
7/8	.0	.0	*	.8	1.8	1.8	1.0	.1	.0	.0	141	1.0	4.6
6	.0	.0	.0	.1	.4	.5	.1	.0	*	.0	30	.3	.9
5	.0	.0	.3	1.4	3.0	2.5	.8	.0	.0	.0	205	1.1	7.0
4	.0	.1	.8	2.0	5.4	2.1	.4	.0	.0	.0	273	1.6	9.2
3	.0	.0	.2	.8	1.9	.6	*	.0	.0	.0	93	.5	3.2
2	.0	.7	2.1	4.5	7.4	1.8	*	.0	.0	.0	418	3.2	13.2
1	.0	.0	.7	2.0	1.6	.6	*	.0	.0	.0	126	1.0	4.0
0	*	.7	3.0	5.9	7.6	.4	.0	.0	.0	.0	449	4.9	12.8
-1	.0	.2	1.1	2.1	1.8	.1	*	.0	.0	.0	135	2.2	3.1
-2	.0	.8	2.0	3.3	3.0	.1	.0	.0	.0	.0	232	2.4	6.8
-3	.0	.2	.9	.6	.2	*	.0	.0	.0	.0	45	.6	1.2
-4	.2	.2	1.0	1.0	.6	.0	.0	.0	.0	.0	76	1.3	1.5
-5	*	.2	1.4	.6	.2	.0	.0	.0	.0	.0	61	1.0	1.4
-6	.0	*	.2	.1	*	.0	.0	.0	.0	.0	10	.2	.2
-7/-8	.1	*	.4	.1	.0	*	.0	.0	.0	.0	17	.4	.3
-9/-10	.0	*	.1	*	.0	.0	.0	.0	.0	.0	4	.1	.1
-11/-13	.1	.0	*	*	.0	.0	.0	.0	.0	.0	4	*	.1
TOTAL	16	78	368	640	928	329	127	38	17	2	2537	584	1953
PCT	.4	3.1	14.5	25.2	36.6	13.0	9.0	1.5	.7	.1	100.0	23.0	77.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	4.6	.2	.0	.0	.0	6.2	.2	1.4	.0	.0	.0	.0	1.6
1-2	.5	5.1	2.3	.0	.0	.0	7.9	.2	1.3	.5	.0	.0	.0	2.0
3-4	.0	1.0	3.0	.3	.0	.0	4.3	.0	.2	.1	.0	.0	.0	.4
5-6	.0	.3	.8	.4	.0	.0	1.5	.0	.0	*	.1	.0	.0	.1
7	.0	.0	.1	.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	11.0	6.4	1.6	.0	.0	20.9	.5	3.0	.6	.1	.0	.0	4.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.3	1.2	.0	.0	.0	.0	1.6
1-2	.1	.1	.4	.0	.0	.0	.6	.1	.3	1.3	.0	.0	.0	1.7
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.4	1.3	.4	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.5	.0	.0	.0	1.3	.4	2.0	2.6	1.2	*	.0	6.2

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0016 WEST COAST KAMCHATKA
34.3N 155.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.2	.0	.0	.0	2.3	.6	1.9	.0	.0	.0	.0	2.5
1-2	.1	2.4	3.8	.0	.0	.0	6.3	.2	2.5	1.0	.0	.0	.0	3.7
3-4	.0	.3	4.2	1.0	.0	.0	5.5	.0	.1	.3	.8	.0	.0	.5
5-6	.0	.1	1.7	2.1	.1	.0	4.1	.0	.0	.9	.8	.0	.0	.9
7	.0	.0	.8	1.2	.1	.0	2.2	.0	.0	.3	.8	.0	.0	.3
8-9	.0	.0	.3	1.0	.1	.0	1.4	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.8	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.7	11.1	5.5	.4	.0	22.1	.8	4.5	2.6	.1	.8	.0	8.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	3.3	.0	.0	.0	.0	3.9	.7	3.4	.3	.0	.0	.0	6.5	
1-2	.1	2.5	1.0	.0	.0	.0	3.7	.2	4.8	3.1	.0	.0	.0	8.2	
3-4	.0	.2	.3	.0	.0	.0	.7	.0	.7	1.6	.1	.0	.0	2.4	
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.3	.9	.8	.0	.0	1.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.2	.0	1.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	8.0	1.6	.1	.0	.0	10.4	1.0	11.2	6.7	.6	.2	.0	19.8	93.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	10.8	22.4	.8	.0	.0	.0	33.9	
1-2	2.0	19.0	13.4	.0	.0	.0	34.5	
3-4	.1	3.0	11.2	1.8	.0	.0	16.1	
5-6	.0	.8	4.4	3.4	.1	.0	8.7	
7	.0	.0	1.6	2.7	.3	.0	4.6	
8-9	.0	.0	.3	1.1	.1	.0	1.7	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.9	45.2	32.0	9.2	.6	.0	100.0	930

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.9	22.5	10.2	4.2	1.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	702	2
6-7	.0	1.8	3.3	4.8	1.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	4
8-9	.0	.3	.8	1.3	.8	.6	.2	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	6
10-11	.0	.3	.0	.1	.4	.4	.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
12-13	.0	.0	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	6.6	4.3	11.3	4.1	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	372	3
TOTAL	252	399	381	200	78	30	7	10	8	2	0	0	0	0	0	0	0	0	0	1367	3
PCT	18.4	29.2	27.9	14.6	5.7	2.2	.5	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

JULY

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.8	.1	1.7	.0	.0	.0	.0	5.6	.4	.0	28.3	1.5	.0	.1	63.8
NE	15.6	.2	3.3	.0	.0	.0	.0	19.1	.2	.0	22.9	1.8	.0	.0	56.1
E	24.1	1.5	7.7	.0	.0	.0	.0	32.1	1.1	.0	14.2	.0	.0	.0	52.6
SE	18.3	.0	6.8	.0	.0	.0	.0	24.8	2.7	.0	25.1	.7	.6	.0	46.0
S	20.4	.1	4.9	.0	.0	.0	.0	24.9	2.6	.0	29.9	.6	.1	.0	41.9
SW	10.3	.0	4.0	.0	.0	.0	.0	14.0	1.9	.0	34.9	.7	.0	.0	48.6
W	7.8	.0	3.3	.0	.0	.0	.0	11.2	1.4	.0	25.9	1.3	.3	.0	59.9
NW	7.5	.0	1.4	.0	.0	.0	.0	8.9	.8	.2	28.5	1.1	.0	.0	60.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0	.0	3.5	.0	.0	.0	.0	11.5	1.5	.0	30.0	.0	.0	.0	57.0
TOT PCT	12.3	.1	3.5	.0	.0	.0	.0	15.7	1.6	*	28.9	.9	.1	*	52.7
TOT OBS:	3894														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	9.6	.1	3.6	.0	.0	.0	.0	13.1	1.7	.1	29.3	.9	.1	.1	54.7
06009	12.4	.1	2.9	.0	.0	.0	.0	15.3	1.3	.0	25.6	.5	.0	.0	57.2
12015	14.3	.1	4.3	.0	.0	.0	.0	18.5	1.4	.0	25.4	1.0	.2	.0	53.5
18021	13.2	.0	3.7	.0	.0	.0	.0	16.6	2.1	.0	35.4	1.3	.0	.0	44.7
TOT PCT	12.3	.1	3.6	.0	.0	.0	.0	15.8	1.6	*	28.9	.9	.1	*	52.7
TOT OBS:	3936														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.9	10.5	5.0	.7	.1	.0		19.1	9.1		19.4	16.6	19.9	20.1	20.5	20.9	18.8	17.1
NE	1.0	1.7	.7	*	.0	.0		3.4	6.9		2.9	2.3	2.3	2.9	2.5	3.5	5.8	5.8
E	.6	.9	.3	*	.0	.0		1.8	7.1		2.1	.4	1.6	1.4	1.7	1.3	3.0	3.3
SE	1.2	2.5	1.4	.3	*	.0		5.4	9.0		6.4	4.1	3.4	3.9	6.8	4.3	7.2	7.7
S	3.5	12.4	10.7	4.0	.3	*		31.0	12.0		30.2	32.6	28.3	29.5	24.7	33.2	33.1	36.1
SW	3.1	6.4	2.0	.4	*	.0		12.0	7.3		10.9	15.8	13.5	11.6	10.8	12.6	10.4	9.3
W	2.3	3.7	.6	.1	*	.0		6.8	5.9		6.1	8.0	6.7	8.7	7.6	5.9	5.2	5.7
NW	3.2	9.0	3.1	.3	*	.0		15.6	7.5		13.5	18.3	20.5	19.9	17.5	14.4	10.1	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		8.4	2.0	3.9	1.9	7.9	3.8	6.4	4.8
TOT OBS	938	1950	979	243	19	2	4131		8.8		571	609	488	320	484	502	481	476
TOT PCT	22.7	47.2	23.7	5.9	.5	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	8.0	8.9	2.0	.1	*			19.1	9.1		18.0	20.0	20.7	18.0	
NE	2.2	.9	.3	.0	.0			3.4	6.9		2.6	2.6	3.0	5.8	
E	.9	.7	.2	.0	.0			1.8	7.1		1.2	1.5	1.3	3.1	
SE	2.4	2.1	.8	.1	.0			5.4	9.0		5.2	3.7	3.5	7.4	
S	9.9	12.2	7.5	1.2	.1			31.0	12.0		31.5	28.9	29.1	34.6	
SW	7.2	3.7	1.0	.1	*			12.0	7.3		13.4	12.5	11.7	9.9	
W	4.8	1.8	.2	.1	.0			6.8	5.9		7.1	7.7	6.8	5.5	
NW	8.6	6.0	1.0	.1	.0			15.6	7.5		16.0	20.2	15.9	10.2	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	4.8							4.8	.0		5.1	2.9	5.8	5.6	
TOT OBS	2020	1499	536	71	5	4131			8.8		1180	1008	986	957	
TOT PCT	48.9	36.3	13.0	1.7	.1			100.0			100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974AREA 0016 WEST COAST KAMCHATKA
54.5N 155.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	5.1	17.3	46.5	24.6	6.1	.3	.1	8.7	100.0	1180
0600	2.9	14.7	48.5	26.7	6.5	.6	.1	9.5	100.0	1008
1200	5.8	18.6	45.7	23.8	5.6	.5	.0	8.7	100.0	986
1800	5.6	21.2	48.2	19.3	5.2	.4	.0	8.0	100.0	957
TOT	200	738	1950	979	243	19	2	8.8		4131
PCT	4.8	17.9	47.2	23.7	5.9	.5	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	1.7	3.1	9.2		5.7
NE	.3	.2	.8	2.2		6.7
E	.2	.1	.5	1.5		6.9
SE	.3	.1	.8	4.9		7.3
S	.9	1.0	3.7	23.1		7.4
SW	.4	.3	1.4	8.2		7.4
W	.4	.4	1.1	5.7		7.2
NW	1.8	1.2	3.3	9.4		6.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	1.6	5.1		6.9
TOT OBS	198	115	366	1539	2218	6.8
TOT PCT	8.9	5.2	16.5	69.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

NO. OCCURRENCE OF NH 45/8 WIND DIRECTION												
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS	
3.5	.0	.5	2.3	1.9	1.7	.7	.2	.3	.0	6.9		
.8	.0	.2	.5	.5	.2	.2	.1	.1	*	.9		
.4	*	.0	.3	.4	.3	.1	*	.0	.1	.6		
1.3	.1	.7	1.3	1.2	.4	.1	.1	.1	.0	.9		
7.2	.1	1.4	5.6	6.3	2.5	1.3	.5	.3	*	3.7		
2.2	.2	.4	2.1	2.8	1.0	.2	.2	*	*	1.1		
1.1	.0	.2	2.4	1.4	1.2	.1	.1	.0	.0	1.2		
3.1	.0	.2	2.8	2.8	1.4	.4	.2	.1	*	4.7		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1.6	.0	.4	.8	1.8	.8	.5	.1	.2	*	1.6		
469	8	87	401	421	209	80	33	25	5	480		
21.1	.4	3.9	18.1	19.0	9.4	3.6	1.5	1.1	.2	21.6	2218	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.0	1.2	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.5	2.1	2.5	2.5	2.6	2.7	2.8	2.8
= OR >3500	3.4	5.0	5.7	5.9	6.0	6.2	6.3	6.3
= OR >2000	8.2	12.9	15.3	15.3	15.6	15.9	16.1	16.1
= OR >1000	11.0	24.5	32.5	33.7	34.0	35.0	35.5	35.5
= OR >600	13.7	33.6	46.9	49.9	50.7	52.6	53.2	53.2
= OR >300	13.9	35.2	49.7	53.3	54.2	56.3	57.1	57.1
= OR >150	14.1	35.4	49.9	53.5	54.5	56.7	57.5	57.5
= OR >0	14.1	35.7	51.5	56.6	58.7	66.0	77.3	78.3
TOTAL	310	784	1132	1243	1289	1451	1699	1720

TOTAL NUMBER OF OBS: 2197

PCT FREQ NH <5/8: 21.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.8	9.0	5.1	4.0	2.6	2.4	5.1	6.9	43.4	2303

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

JULY

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.0	.2	1.3	.2	.0	.2	.0	.1	2.3	
	NO PCP	4.0	.6	.2	1.1	6.8	3.1	1.5	3.3	.0	1.2	21.9	
	TOT %	4.1	.7	.2	1.3	8.1	3.3	1.5	3.7	.0	1.3	24.2	
1/2<1	PCP	.0	.1	.1	.2	1.0	.1	.1	.1	.0	.0	1.6	
	NO PCP	.4	.1	.0	.3	1.0	.4	.2	.4	.0	.1	2.8	
	TOT %	.4	.1	.1	.5	2.0	.5	.2	.5	.0	.1	4.5	
1<2	PCP	.1	.2	.1	.3	1.5	.3	.1	.2	.0	.1	2.7	
	NO PCP	.4	.1	.0	.1	.5	.2	.2	.3	.0	.1	2.0	
	TOT %	.5	.2	.1	.4	2.0	.5	.3	.4	.0	.2	4.7	
2<5	PCP	.3	.1	.1	.5	2.5	.7	.4	.5	.0	.3	5.4	
	NO PCP	.8	.2	.1	.3	2.5	1.0	.4	.9	.0	.5	6.7	
	TOT %	1.1	.3	.2	.8	5.0	1.7	.9	1.4	.0	.8	12.1	
5<10	PCP	.4	.2	.1	.2	1.1	.3	.1	.3	.0	.2	2.8	
	NO PCP	4.0	.6	.4	1.1	3.7	2.4	2.0	3.5	.0	1.1	20.7	
	TOT %	4.3	.8	.5	1.2	6.8	2.6	2.1	3.8	.0	1.3	23.5	
10+	PCP	.1	.1	.1	.1	.5	.1	.1	.1	.0	.0	1.1	
	NO PCP	7.9	1.4	.5	1.2	6.3	2.9	2.4	5.8	.0	1.5	30.0	
	TOT %	8.1	1.5	.6	1.3	6.8	3.0	2.4	5.9	.0	1.5	31.1	
TOT OBS													3841
TOT PCT		18.6	3.6	1.8	5.5	30.7	11.6	7.4	15.7	.0	5.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.3	.2	.3	1.0	1.4	.7	1.2	.0	1.2	6.7	
	4-10	2.8	.4	.1	.7	3.5	1.7	.8	2.1	.0		12.0	
	11-21	1.1	.1	.0	.2	2.8	.3	.0	.7	.0		5.3	
	22+	.1	.0	.0	.0	.0	.1	.1	.0	.0		1.1	
	TOT %	4.5	.7	.3	1.3	6.1	2.5	1.5	3.9	.0	1.2	25.0	
1/2<1	0-3	.2	.1	.0	.1	.2	.1	.1	.2	.0	.2	1.2	
	4-10	.4	.0	.1	.3	.7	.3	.1	.3	.0		2.2	
	11-21	.1	.0	.0	.1	.9	.1	.0	.1	.0		1.4	
	22+	.0	.0	.0	.1	.3	.0	.0	.0	.0		.4	
	TOT %	.8	.1	.1	.5	2.1	.6	.3	.5	.0	.2	5.2	
1<2	0-3	.2	.1	.1	.1	.2	.1	.0	.3	.0	.2	1.2	
	4-10	.5	.1	.1	.2	.7	.4	.1	.4	.0		2.5	
	11-21	.1	.0	.0	.1	1.0	.2	.1	.1	.0		1.6	
	22+	.0	.0	.0	.1	.8	.1	.0	.1	.0		1.0	
	TOT %	.8	.3	.1	.4	2.6	.8	.2	.9	.0	.2	6.3	
2<5	0-3	.4	.1	.0	.1	.5	.4	.1	.3	.0	.7	2.6	
	4-10	.8	.2	.2	.4	1.9	1.2	.5	1.0	.0		6.2	
	11-21	.4	.1	.0	.4	2.3	.4	.2	.4	.0		4.2	
	22+	.0	.0	.0	.1	1.0	.1	.0	.0	.0		1.3	
	TOT %	1.7	.3	.3	.9	5.7	2.1	.8	1.8	.0	.7	14.2	
5<10	0-3	.7	.1	.0	.2	.8	.4	.4	.3	.0	1.0	3.8	
	4-10	2.0	.4	.3	.5	2.6	1.2	1.2	2.1	.0		10.3	
	11-21	1.2	.2	.1	.4	2.0	.7	.2	.9	.0		5.8	
	22+	.2	.0	.0	.0	.7	.0	.0	.0	.0		1.1	
	TOT %	4.1	.7	.5	1.1	6.1	2.3	1.8	3.3	.0	1.0	21.0	
10+	0-3	.9	.4	.2	.5	.8	.7	1.0	1.0	.0	1.4	6.9	
	4-10	4.0	.7	.2	.5	3.0	1.7	1.0	3.3	.0		14.3	
	11-21	2.0	.3	.1	.2	1.8	.2	.1	1.0	.0		5.7	
	22+	.5	.0	.0	.0	.6	.1	.1	.1	.0		1.4	
	TOT %	7.4	1.3	.6	1.2	6.3	2.8	2.2	5.3	.0	1.4	28.4	
TOT OBS													3998
TOT PCT		19.2	3.5	1.8	5.4	30.9	12.0	6.9	15.7	.0	4.6	100.0	

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974AREA 0016 WEST COAST KAMCHATKA
54.3N 135.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	18.6	.3	4.6	16.0	18.2	13.5	4.1	1.8	1.6	.1	78.9	21.1	681
06009	16.2	.4	3.2	18.3	20.4	7.2	4.0	1.8	.7	.2	72.2	27.8	569
12015	23.3	.4	2.6	18.2	17.1	8.6	3.8	1.1	.9	.0	76.1	23.9	532
18021	27.6	.4	5.0	20.3	20.3	7.5	2.1	1.0	1.0	.6	83.9	14.1	482
TOT	476	8	87	408	429	215	81	33	25	5	1767	497	2264
PCT	21.0	.4	3.8	18.0	18.9	9.5	3.6	1.5	1.1	.2	78.0	22.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	23.6	4.7	5.4	14.4	20.0	31.8	1219
06009	23.3	4.2	5.2	12.2	21.8	33.3	1058
12015	23.5	4.9	7.4	15.8	23.0	25.4	1013
18021	28.1	6.1	7.8	15.5	21.1	21.5	988
TOT	1051	211	273	618	916	1209	4278
PCT	24.6	4.9	6.4	14.4	21.4	28.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	18.4	28.7	53.5	28.7	17.8	663
06009	15.9	24.0	50.7	25.3	24.0	558
12015	23.2	29.9	58.7	21.4	19.8	509
18021	27.4	36.8	68.7	21.2	10.1	467
TOT	457	648	1258	539	400	2197
PCT	20.8	29.5	57.3	24.5	18.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
60/64	.0	.0	.0	.0	.1	.6	.1	.2	11	1.0
55/59	.0	.0	.0	.0	.3	2.8	6.8	3.3	143	13.2
50/54	.0	.0	.1	.0	.0	1.5	12.4	25.9	433	39.9
45/49	.0	.0	.0	.1	.1	.2	6.3	33.6	437	40.3
40/44	.0	.0	.0	.1	.0	.0	.6	4.7	59	5.4
35/39	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	1	2	9	55	286	736	1085	100.0
PCT	.0	.0	.1	.2	.5	5.1	26.4	67.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
.2	.0	.1	.0	.0	.1	.2	.0	.0	.5
2.3	.5	.3	.3	1.7	1.4	1.0	4.3	.0	1.4
8.2	1.6	1.2	2.6	11.4	4.2	2.3	6.9	.0	1.6
6.5	.7	.5	3.0	10.2	4.6	5.8	7.9	.0	1.1
.7	.1	.0	.2	2.6	.5	.2	.7	.0	.6
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
17.9	2.9	2.0	6.2	26.0	10.7	9.4	19.8	.0	5.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	68	63	52	45	41	36	52.9	1255
06009	73	68	63	52	45	42	32	52.2	1069
12015	68	61	57	50	43	39	32	49.5	1048
18021	70	61	57	50	44	41	32	49.6	1023
TOT	76	66	61	50	45	41	32	51.1	4395

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	.7	11.0	33.3	54.6	90	282
06009	.0	.3	.7	7.1	38.5	53.4	90	296
12015	.0	.0	.4	1.1	16.6	81.9	94	277
18021	.0	.4	.0	.4	15.2	84.0	94	243
TOT	0	3	3	56	291	743	92	1098

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0016 WEST COAST KAMCHATKA
54.9N 159.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	*	3	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	10	.1	.3
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	*	*	7	*	.2
14/16	.0	.0	.0	.0	.0	*	*	.1	.3	.2	*	.0	23	.2	.5
11/13	.0	.0	.0	*	.1	.1	.3	.7	.9	*	.0	.0	65	.5	1.6
9/10	.0	.0	.0	.0	*	.2	.7	1.4	.9	*	.0	.0	103	.6	2.6
7/8	.0	.0	.0	.0	.1	.6	1.8	1.5	.3	*	.0	.0	134	.9	3.3
6	.0	.0	.0	.0	*	.2	.8	.8	.0	.0	.0	.0	46	.2	1.2
5	.0	.0	.0	*	.5	2.1	3.9	1.7	.3	*	.0	.0	270	2.1	6.4
4	.0	.0	*	.1	1.5	4.3	2.8	1.6	.3	*	.0	.0	339	3.0	7.7
3	.0	.0	.0	.0	.8	1.5	1.3	.1	.0	.0	.0	.0	117	.5	3.2
2	.0	.0	.1	.3	6.4	7.9	4.5	1.0	.1	.0	.0	.0	636	5.4	14.7
1	.0	.0	.0	.1	1.9	2.5	.6	.1	.0	.0	.0	.0	164	1.0	4.2
0	.0	*	*	.8	10.3	5.1	2.7	.3	.1	.0	.0	.0	609	4.2	13.0
-1	.0	.0	.0	.4	1.4	1.7	.5	.0	.0	.0	.0	.0	125	1.0	3.0
-2	.0	.1	.2	.8	4.6	1.8	.7	.3	*	.0	.0	.0	268	3.2	5.3
-3	.0	.0	.1	.1	1.7	1.1	.4	.0	.0	.0	.0	.0	103	.9	2.4
-4	.0	*	*	.4	1.4	.8	.1	.1	.0	.0	.0	.0	92	1.2	1.7
-5	.0	.0	.0	.1	.7	.3	.0	.0	.0	.0	.0	.0	33	.6	.5
-6	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	7	.1	.1
-7/-8	*	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0	6	*	.2
-11/-13	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	5	16	98	1001	669	294	103	18	2	3163	885	2278		
PCT	.1	.2	.5	3.1	31.6	30.2	21.0	9.3	3.3	.6	.2	.1	100.0	28.0	72.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.0	.6	.0	.0	.0	6.3	.3	.9	.0	.0	.0	.0	1.2
1-2	.2	4.8	3.2	.0	.0	.0	8.2	.0	.5	.8	.0	.0	.0	1.3
3-4	.0	.7	2.4	.0	.0	.0	3.1	.0	*	*	.0	.0	.0	.2
5-6	.0	.0	1.3	.2	.0	.0	1.5	.0	.0	*	.0	.0	.0	*
7	.0	.0	.3	.5	.1	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.5	7.8	.7	.2	.0	20.0	.3	1.5	.9	*	.0	.0	2.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.9	.3	1.6	*	.0	.0	.0	1.9
1-2	.0	.4	.0	.0	.0	.0	.4	.1	1.0	.2	.0	.0	.0	1.3
3-4	.0	.2	.0	.1	.0	.0	.2	.1	.1	.5	.1	.0	.0	.8
5-6	.0	.0	.1	.0	.0	.0	.1	.0	*	.2	.1	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.3	.2	.1	.0	.0	1.6	.5	2.7	1.2	.4	.0	.0	4.8

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	4.5	.4	.0	.0	.0	5.5	.7	2.8	.2	.0	.0	.0	3.8
1-2	.3	3.2	2.8	.0	.0	.0	6.3	.1	2.8	1.5	.0	.0	.0	4.4
3-4	.0	.7	4.2	.7	.0	.0	5.6	.0	.5	1.4	.2	.0	.0	2.0
5-6	.0	.3	2.0	1.3	.0	.0	3.6	.0	.4	.4	.0	.0	.0	.5
7	.0	.0	.8	1.6	.0	.0	2.4	.0	.1	.4	.2	.0	.0	.3
8-9	.0	.0	.7	.6	.0	.0	1.3	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.7	11.3	5.6	.1	.0	20.4	.8	8.3	3.6	.7	.0	.0	11.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	2.1	.2	.0	.0	.0	2.9	.3	6.1	.6	.0	.0	.0	7.0	
1-2	.3	1.6	.6	.0	.0	.0	2.5	.3	3.8	2.3	.0	.0	.0	6.4	
3-4	.2	.7	.5	.0	.0	.0	1.4	.0	1.0	2.1	.0	.0	.0	3.1	
5-6	.0	.1	.0	.1	.0	.0	.2	.0	.1	.7	.2	.0	.0	1.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	4.5	1.4	.1	.0	.0	7.1	.6	11.0	5.9	.3	.0	.0	17.9	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.5	23.8	2.0	.0	.0	.0	37.2	
1-2	1.4	18.2	11.6	.0	.0	.0	31.1	
3-4	.3	3.9	11.2	1.1	.0	.0	16.4	
5-6	.0	.6	4.8	1.9	.0	.0	7.2	
7	.0	.1	1.4	2.5	.1	.0	4.0	
8-9	.0	.0	.9	.8	.1	.0	1.8	
10-11	.0	.0	.4	.4	.0	.0	.7	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.1	.8	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.1	46.4	32.3	7.9	.3	.0	100.0	1090

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	14.1	23.2	10.3	4.6	1.1	.4	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	912	2
6-7	.1	2.7	5.1	3.0	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	4
8-9	.0	.5	.6	.8	1.2	.4	.5	1.0	1.5	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	113	9
10-11	.0	.7	.0	.0	.1	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
12-13	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDEX	6.4	4.0	6.7	2.8	3.4	.6	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	422	3
TOTAL	346	523	388	189	120	27	28	19	35	9	1	0	1	0	0	0	0	0	0	0	1684	3
PCT	20.5	31.1	22.9	11.2	7.1	1.6	1.7	1.1	2.1	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AUGUST

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	7.5	.0	2.2	.0	.0	.0	.0	9.7	.7	.0	18.0	.9	.6	.0	70.2
NE	12.4	1.6	5.2	.0	.0	.0	.0	19.2	.4	.0	12.0	1.0	.2	.0	67.2
E	26.5	.0	4.9	.0	.0	.0	.0	31.4	.0	.0	7.2	.0	.0	.0	61.4
SE	30.2	.6	7.0	.0	.0	.0	.0	37.8	4.3	.0	22.4	.2	.0	.0	35.4
S	27.5	.1	8.9	.0	.0	.0	.0	36.0	1.9	.0	28.0	.1	.0	.0	34.0
SW	13.4	.2	5.6	.0	.0	.0	.0	18.7	.5	.0	32.3	.0	.4	.0	48.0
W	4.8	.0	5.7	.0	.0	.0	.0	10.5	.0	.0	28.7	1.2	.6	.0	59.0
NW	5.2	.0	4.4	.0	.0	.0	.0	8.9	.9	.0	24.6	.7	.2	.3	64.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3	.0	6.6	.0	.0	.0	.0	11.8	2.0	.0	30.3	.0	1.3	.0	54.6
TOT PCT	14.9	.2	5.7	.0	.0	.0	.0	20.5	1.3	.0	24.2	.5	.3	*	53.2
TOT OBS:	2353														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	13.8	.0	4.7	.0	.0	.0	.0	18.2	1.0	.0	25.7	.4	.4	.0	54.2
06009	15.2	.2	5.2	.0	.0	.0	.0	20.2	1.2	.0	18.4	.7	.3	.0	59.0
12015	14.9	.4	6.7	.0	.0	.0	.0	21.5	1.8	.0	25.4	.2	.4	.2	50.6
18021	15.5	.2	6.5	.0	.0	.0	.0	22.2	1.5	.0	26.0	.6	.0	.0	49.7
TOT PCT	14.8	.2	5.7	.0	.0	.0	.0	20.4	1.3	.0	23.9	.5	.3	*	53.5
TOT OBS:	2382														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.9	11.2	5.8	1.0	.3	.0		21.3	9.9		20.0	18.7	21.6	21.3	21.8	21.9	22.0	24.4
NE	.8	3.2	1.0	.1	.0	.0		5.2	8.3		5.9	2.4	3.3	3.1	7.0	4.5	7.1	6.6
E	.7	1.3	.4	*	.0	.0		2.4	6.8		2.3	1.6	1.6	.7	2.5	2.4	4.5	2.7
SE	1.5	3.1	1.9	.6	*	.0		7.2	9.9		4.0	5.1	3.7	3.6	8.0	10.7	10.5	12.0
S	3.4	10.1	9.1	3.7	.4	.0		26.8	12.3		27.2	32.9	23.5	30.3	23.1	29.4	24.3	30.2
SW	2.6	5.2	2.1	.6	.0	.0		10.4	8.4		10.7	14.0	11.2	11.4	8.8	8.4	10.2	7.6
W	2.4	3.3	1.1	.1	.0	.0		6.9	6.2		6.5	7.2	10.3	6.9	6.7	6.1	5.2	4.5
NW	2.8	8.1	3.7	.3	*	.0		14.9	8.0		13.1	19.9	21.0	20.4	15.8	13.3	9.2	8.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0		4.4	2.2	3.7	2.3	6.2	1.3	7.0	3.6
TOT OBS	583	1206	667	170	22	0	2648		9.2		487	271	431	217	404	229	415	194
TOT PCT	22.0	43.5	25.2	6.4	.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	8.2	10.3	2.1	.8	.0		21.3	9.9	19.6	21.5	21.8	22.8	
NE	2.4	2.4	.3	*	.0		5.2	8.3	4.6	3.2	6.1	6.9	
E	1.4	.9	*	.0	.0		2.4	6.8	2.0	1.3	2.4	3.9	
SE	2.9	3.1	1.0	.1	.0		7.2	9.9	5.6	3.7	9.0	11.0	
S	8.2	11.0	5.9	1.6	*		26.8	12.3	29.2	25.8	25.4	26.2	
SW	5.2	3.7	1.3	.2	.0		10.4	8.4	11.9	11.3	8.7	9.4	
W	4.5	2.1	.3	.0	.0		6.9	6.2	6.7	9.2	6.5	5.0	
NW	6.9	7.2	.7	.1	.0		14.9	8.0	14.1	20.8	15.6	8.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.0						5.0	.0	6.2	3.2	4.4	5.9	
TOT OBS	1186	1076	309	76	1	2648		9.2	758	648	633	609	
TOT PCT	44.8	40.6	11.7	2.9	*		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	6.2	16.1	45.1	26.8	5.3	.5	.0	9.0	100.0	758
0600	3.2	16.0	46.1	26.5	6.9	1.1	.0	9.6	100.0	648
1200	4.4	20.1	43.4	24.8	6.3	.9	.0	9.2	100.0	633
1800	5.9	16.1	47.6	22.2	7.4	.8	.0	9.1	100.0	609
TOT	132	431	1206	667	170	22	0	9.2		2648
PCT	5.0	17.0	45.5	25.2	6.4	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION					MEAN
WIND DIR	0-2	3-4	5-7	8 & 9	CLOUD
				OBSCD	COVER
				TOTAL	
				OBS	
N	4.8	2.3	4.0	11.5	5.7
NE	.7	.5	1.5	4.1	6.6
E	.5	.1	.4	1.5	6.2
SE	.2	.1	.7	4.9	7.5
S	.6	.5	3.0	19.2	7.5
SW	.6	.2	1.2	7.3	7.2
W	1.2	.2	1.0	4.8	6.4
NW	2.3	1.4	3.0	7.7	6.1
VAR	.0	.0	.0	.0	.0
CALM	.3	.6	1.2	5.8	7.0
TOT OBS	175	93	245	1028	6.6
TOT PCT	11.4	6.0	15.9	66.7	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
2.3	.1	.0	1.8	3.8	3.3	.7	1.3	.1	.1	9.2	
1.1	.1	.0	.2	1.1	.9	.3	1.0	.0	.0	2.1	
.2	.0	.1	.1	.5	.4	.1	.3	.0	.0	.8	
2.0	.0	.1	.8	1.2	.7	.1	.4	.0	.0	.6	
6.7	.1	.6	2.7	3.3	5.3	1.2	.9	.0	*	2.3	
1.6	.0	.2	.8	1.8	2.5	.5	.6	.0	*	1.4	
1.1	.0	.1	.6	1.2	1.7	.4	.6	.1	.0	1.6	
1.6	.0	.4	1.3	1.7	2.2	.7	1.1	.1	.1	3.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2.2	.0	.1	.7	1.4	1.4	.2	.1	.2	.1	1.6	
290	4	27	139	247	283	64	95	7	5	380	1541
18.8	.3	1.8	9.0	16.0	18.4	4.2	6.2	.5	.3	24.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.7	.8	.8	.8	.8	.9	.9
>5000	1.7	3.3	6.2	6.4	6.6	6.8	7.0	7.0
>3500	3.3	6.3	9.6	10.0	10.2	10.7	10.9	10.9
>2000	12.2	21.5	27.5	28.0	28.3	29.1	29.5	29.5
>1000	15.4	31.3	42.4	43.7	44.3	45.3	45.7	45.7
>600	15.9	34.9	48.0	50.8	52.1	53.8	54.2	54.2
>300	16.0	35.6	49.1	52.2	53.6	55.4	55.9	55.9
>150	16.0	35.6	49.3	52.5	53.9	55.7	56.1	56.2
>0	16.2	36.3	51.5	56.4	60.0	65.8	73.3	74.8
TOTAL	243	546	774	849	902	990	1103	1125

TOTAL NUMBER OF OBS: 1504

PCT FREQ NH <5/8: 25.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
5.7	5.6	6.1	4.0	2.8	3.5	6.7	4.3	43.4	17.9	1618

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.2	.3	1.2	3.7	.6	.3	.5	.0	.1	7.3	
	NO PCP	3.2	.5	.8	1.4	5.4	2.3	1.5	2.6	.0	1.3	18.3	
	TOT %	3.7	.8	.3	2.6	9.2	2.8	1.9	3.1	.0	1.4	25.7	
1/2<1	PCP	.2	.8	.8	.2	1.3	.1	.1	.1	.0	.1	2.2	
	NO PCP	.2	.1	.8	.1	.4	.1	.1	.4	.0	.2	1.6	
	TOT %	.5	.1	.1	.2	1.7	.2	.2	.5	.0	.3	3.8	
1<2	PCP	.2	.2	.1	.6	1.4	.4	.1	.2	.0	.1	3.2	
	NO PCP	.3	.1	.8	.1	.3	.4	.2	.4	.0	.1	2.0	
	TOT %	.6	.3	.1	.7	1.7	.7	.3	.6	.0	.2	5.2	
2<5	PCP	.5	.5	.3	.3	1.4	.4	.2	.1	.0	.3	4.0	
	NO PCP	2.0	.7	.2	.7	2.0	.9	.7	1.3	.0	1.0	9.7	
	TOT %	2.5	1.3	.5	.9	3.5	1.4	.8	1.5	.0	1.3	13.7	
5<10	PCP	.6	.1	.1	.4	1.1	.2	.1	.3	.0	.1	3.0	
	NO PCP	3.4	1.1	.4	1.0	3.6	1.7	1.8	3.8	.0	1.4	20.1	
	TOT %	6.0	1.3	.5	1.4	4.7	1.9	1.8	4.1	.0	1.5	23.1	
10+	PCP	.2	.0	.8	.1	.5	.1	.0	.8	.0	.1	1.0	
	NO PCP	8.4	1.9	.8	1.1	4.4	2.6	1.9	4.8	.0	1.7	27.5	
	TOT %	8.6	1.9	.9	1.2	4.9	2.7	1.9	4.8	.0	1.8	28.6	
TOT OBS													2318
TOT PCT		21.8	5.6	2.4	7.0	25.7	9.7	7.0	14.5	.0	6.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.9	.2	.2	.5	2.0	1.5	1.4	1.3	.0	1.1	9.2	
	4-10	3.9	.6	.2	1.3	5.2	2.0	1.0	2.7	.0		17.0	
	11-21	1.5	.2	.0	.9	3.0	.6	.0	1.2	.0		7.4	
	22+	.0	.8	.8	.1	1.1	.3	.1	.0	.0		1.6	
	TOT %	6.3	1.1	.4	2.9	11.3	4.4	2.5	5.2	.0	1.1	35.3	
1/2<1	0-3	.8	.8	.0	.8	.1	.8	.1	.1	.0	.2	.5	
	4-10	.3	.1	.8	.1	.3	.1	.8	.4	.0		1.4	
	11-21	.1	.8	.8	.8	.6	.1	.1	.0	.0		.9	
	22+	.0	.0	.0	.1	.6	.8	.0	.0	.0		.7	
	TOT %	.5	.1	.1	.2	1.6	.2	.2	.5	.0	.2	3.5	
1<2	0-3	.3	.1	.1	.8	.1	.2	.1	.1	.0	.2	1.2	
	4-10	.4	.1	.8	.2	.3	.3	.2	.3	.0		1.8	
	11-21	.1	.8	.0	.1	.9	.2	.1	.1	.0		1.5	
	22+	.0	.0	.0	.2	.4	.8	.0	.0	.0		.6	
	TOT %	.7	.2	.1	.6	1.7	.7	.4	.5	.0	.2	5.1	
2<5	0-3	.4	.2	.1	.2	.5	.8	.2	.2	.0	.8	2.6	
	4-10	.9	.6	.2	.4	.9	.4	.4	.9	.0		4.7	
	11-21	.9	.3	.2	.3	1.4	.5	.2	.5	.0		4.2	
	22+	.3	.8	.0	.1	.8	.2	.0	.8	.0		1.5	
	TOT %	2.5	1.2	.5	.9	3.6	1.1	.8	1.6	.0	.8	13.0	
5<10	0-3	.5	.2	.2	.2	.2	.2	.3	.5	.0	1.1	3.5	
	4-10	2.4	.7	.2	.7	1.1	1.0	.6	1.6	.0		8.2	
	11-21	1.5	.2	.8	.3	1.7	.4	.4	1.0	.0		5.5	
	22+	.4	.1	.0	.8	.8	.8	.0	.2	.0		1.6	
	TOT %	4.8	1.1	.4	1.2	3.9	1.7	1.4	3.3	.0	1.1	18.7	
10+	0-3	.8	.2	.2	.5	.4	.6	.4	.6	.0	1.4	5.0	
	4-10	3.6	1.1	.5	.4	2.1	1.3	1.0	2.4	.0		12.4	
	11-21	2.0	.3	.1	.2	1.2	.4	.3	1.0	.0		5.6	
	22+	.7	.0	.0	.8	.5	.8	.0	.1	.0		1.3	
	TOT %	7.1	1.6	.8	1.1	4.2	2.3	1.7	4.1	.0	1.4	24.3	
TOT OBS													2952
TOT PCT		21.8	5.3	2.3	7.0	26.2	10.4	6.9	15.2	.0	4.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	200 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	14.7	.0	1.8	7.5	15.7	25.2	5.0	4.8	.4	.4	75.4	24.6	504
06009	11.8	.5	2.5	11.8	15.5	18.5	4.3	7.0	.8	.0	72.7	27.3	399
12014	28.0	.0	1.5	5.2	17.6	11.2	3.3	6.1	.0	.6	73.6	26.4	329
18021	23.6	.6	.9	11.2	16.0	14.2	3.9	6.9	.9	.3	78.5	21.5	391
TOT	291	4	27	139	252	285	66	95	8	5	1172	391	1563
PCT	18.6	.3	1.7	8.9	16.1	18.2	4.2	6.1	.5	.3	75.0	25.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	28.1	3.9	5.7	14.0	16.1	32.2	794
06009	30.8	2.8	3.9	12.4	21.4	29.2	679
12015	38.1	3.2	4.9	12.3	22.2	19.3	657
18021	39.0	4.0	5.4	13.4	20.0	18.3	629
TOT	927	96	135	360	545	696	2759
PCT	33.6	3.5	4.9	13.0	19.8	25.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	14.7	20.7	41.6	36.9	21.5	483
06009	12.1	17.9	40.8	34.6	24.6	390
12015	28.1	33.4	53.6	24.6	21.6	317
18021	23.6	29.3	55.1	25.2	19.7	314
TOT	281	368	703	470	331	1504
PCT	18.7	24.5	46.7	31.3	22.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
60/64	.0	.0	.0	.0	.0	.9	1.9	3.1	23	5.6
55/59	.0	.0	.0	.0	.0	2.7	9.9	9.7	92	22.2
50/54	.0	.0	.0	.0	.0	1.0	19.3	43.5	264	63.8
45/49	.0	.0	.0	.0	.0	.0	.7	7.2	33	8.0
40/44	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	1	0	17	132	264	414	100.0
PCT	.0	.0	.0	.2	.0	4.1	31.9	63.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
.5	.7	.5	.7	1.6	.8	.2	.5	.0	.0
5.3	1.4	1.0	.1	5.7	1.8	1.4	3.8	.0	1.7
11.6	1.0	.5	2.8	20.9	9.5	6.6	8.0	.0	2.9
.0	.0	.0	1.3	3.3	1.1	1.1	.7	.0	.5
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
17.6	3.1	2.1	4.9	31.8	19.1	9.4	13.0	.0	5.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	68	63	54	48	46	44	54.9	822
06009	72	66	63	55	48	45	36	54.9	691
12015	74	63	59	53	48	45	42	53.1	674
18021	70	61	57	52	46	43	37	52.1	650
TOT	75	64	61	54	48	45	36	53.8	2837

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	.0	4.3	35.9	59.0	91	117
06009	.0	.0	.0	4.5	41.4	54.1	90	111
12015	.0	.0	.0	2.9	21.6	75.5	93	102
18021	.0	.0	.0	4.7	25.9	69.4	92	85
TOT	0	1	0	17	132	265	91	415

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TABLE 17

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	3	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.1	.0	.1	.1	6	.0	.4
14/16	.0	.0	.0	.0	.0	.3	.2	.3	.1	.0	13	.0	.8
11/13	.0	.0	.0	.2	.3	.5	1.3	.2	.0	.0	38	.7	1.8
9/10	.0	.0	.4	.5	.6	.6	1.3	.0	.0	.0	52	.9	2.5
7/8	.0	.0	.3	.4	1.0	1.4	1.0	.1	.0	.0	64	.9	3.3
6	.0	.0	.0	.0	.0	.6	.4	.0	.0	.0	15	.2	.8
5	.0	.0	.2	1.4	2.2	2.2	.6	.1	.0	.0	102	1.4	5.2
4	.0	.0	.5	4.1	3.7	2.6	.4	.0	.0	.0	172	2.6	8.6
3	.0	.0	.0	1.4	1.1	1.6	.2	.0	.0	.0	66	.5	3.8
2	.0	.0	.6	4.6	10.6	2.1	.6	.0	.0	.0	282	5.7	12.7
1	.0	.0	.4	1.8	2.4	.7	.0	.0	.0	.0	81	.8	4.5
0	.0	.1	2.7	8.8	7.5	.6	.1	.0	.0	.0	303	7.4	12.4
-1	.0	.0	.2	1.6	3.6	.2	.0	.0	.0	.0	85	1.0	4.6
-2	.0	.1	1.8	4.8	3.1	.1	.0	.0	.0	.0	149	2.5	7.2
-3	.0	.0	.0	1.4	1.0	.0	.0	.0	.0	.0	37	.2	2.2
-4	.0	.1	.4	.7	.5	.0	.0	.0	.0	.0	25	.4	1.2
-5	.0	.0	.5	.7	.1	.0	.0	.0	.0	.0	19	.5	.8
-6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.1	.0
-7/-8	.0	.1	.3	.3	.1	.0	.0	.0	.0	.0	10	.2	.5
-9/-10	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	6	.2	.2
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
-14/-16	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2		127		577		96		5		1933	401	1132
PCT	.1	.5	8.3	32.9	37.6	13.2	6.3	.7	.3	.2	100.0	26.2	73.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	2.7	.3	.0	.0	.0	3.7	.0	2.0	.0	.0	.0	.0	2.0
1-2	.2	3.7	3.3	.0	.0	.0	7.3	.0	.8	.6	.0	.0	.0	1.4
3-4	.1	1.3	3.3	.2	.0	.0	5.0	.0	.2	.5	.0	.0	.0	.8
5-6	.0	.2	.9	.5	.0	.0	1.7	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.0	8.1	.9	.0	.0	18.1	.0	3.0	1.4	.0	.0	.0	4.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.2	.3	.2	.0	.0	.0	.7
1-2	.0	.5	.1	.0	.0	.0	.6	.0	.7	1.5	.0	.0	.0	2.2
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.4	.3	.1	.0	.0	.9
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.7	.0	.0	.0	1.5	.2	1.4	2.7	.4	.0	.0	4.9

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	4.9	.8	.0	.0	.0	6.2	.4	3.2	.0	.0	.0	.0	3.7
1-2	.2	4.5	5.2	.0	.0	.0	9.9	.0	1.9	1.3	.0	.0	.0	3.2
3-4	.0	1.3	3.1	.4	.0	.0	4.8	.0	.7	1.4	.0	.0	.0	2.1
5-6	.0	.2	2.4	.7	.0	.0	3.4	.0	.2	.7	.0	.0	.0	.9
7	.0	.0	.5	1.8	.2	.0	2.5	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.2	.4	.2	.0	.8	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.3	.6	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.9	12.8	4.3	.4	.0	29.1	.4	6.1	4.6	.4	.0	.0	11.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	3.7	.0	.0	.0	.0	4.1	.5	3.0	.1	.0	.0	.0	3.6	
1-2	.0	1.3	.2	.0	.0	.0	1.5	.0	3.6	2.2	.0	.0	.0	5.9	
3-4	.0	.2	1.5	.0	.0	.0	1.7	.2	.6	.9	.2	.0	.0	1.9	
5-6	.0	.2	.9	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.4	3.0	.0	.0	.0	8.9	.7	7.3	3.7	.2	.0	.0	11.9	90.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.7	20.2	1.4	.0	.0	.0	34.3	
1-2	.4	17.1	14.5	.0	.0	.0	31.9	
3-4	.4	4.8	11.5	1.0	.0	.0	17.7	
5-6	.0	.8	6.2	1.4	.0	.0	8.3	
7	.0	.0	2.0	1.8	.2	.0	4.0	
8-9	.0	.0	.6	1.2	.2	.0	2.2	
10-11	.0	.0	.4	.6	.0	.0	1.0	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.2	.0	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.5	42.9	36.9	6.3	.4	.0	100.0	504

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.3	21.3	11.6	3.7	1.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	450	2
6-7	.0	2.1	3.6	2.0	2.2	.9	.7	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	5
8-9	.0	.3	.2	.6	.1	.8	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
10-11	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
12-13	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	11
INDET	11.0	4.5	14.0	7.5	3.3	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	426	3
TOTAL	170	294	309	146	69	23	13	4	12	0	1	0	0	0	0	0	0	0	0	1041	3
PCT	16.3	28.2	29.7	14.0	6.6	2.2	1.2	.4	1.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974AREA 0016 WEST COAST KAMCHATKA
54.1N 155.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.1	.0	1.0	.0	.0	.0	.0	2.2	.8	.0	6.9	.0	.7	.0	89.5
NE	5.4	.0	1.5	.0	.0	.0	.0	6.9	5.0	.0	9.7	.0	1.5	.0	76.8
E	15.5	.0	6.4	.0	.0	.0	.0	21.9	9.4	.0	4.7	.0	.0	.0	63.9
SE	29.9	.0	5.7	.0	.0	.0	.0	35.6	5.4	.0	4.0	.0	.9	.0	54.2
S	14.2	.0	6.4	.0	.0	.0	.0	20.3	4.7	.0	13.8	.6	1.5	.0	59.1
SW	8.1	.0	4.5	.0	.0	.0	.0	12.6	1.8	.0	7.9	.0	.8	.0	77.6
W	6.6	1.1	3.9	.0	.0	.0	.0	12.0	4.1	.0	1.2	.0	.0	.0	82.6
NW	.9	.1	2.2	.0	.0	.0	.0	3.2	.0	.0	1.9	.6	.1	.0	94.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	1.3	.0	.0	.0	.0	4.5	.6	.0	17.5	.0	.6	.0	70.6
TOT PCT	9.1	.1	3.7	.0	.0	.0	.0	12.8	2.9	.0	8.3	.2	.8	.0	74.9
TOT OBS:	1432														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.9	.2	2.2	.0	.0	.0	.0	8.0	2.9	.0	9.8	.2	.0	.0	79.0
06009	8.4	.3	5.8	.0	.0	.0	.0	14.6	2.3	.0	5.2	.3	.0	.0	77.6
12115	9.9	.0	3.9	.0	.0	.0	.0	13.8	4.2	.0	6.6	.3	.0	.0	72.2
18221	13.6	.0	4.1	.0	.0	.0	.0	7.7	1.9	.0	11.7	.0	.3	.0	68.4
TOT PCT TOT OBS:	9.0 1468	.1	3.7	.0	.0	.0	.0	12.8	2.9	.0	8.3	.2	.7	.0	74.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	5.4	7.8	2.0	.1	.0	16.4	13.4	15.2	13.1	22.8	14.1	18.9	11.0	15.1	11.1	
NE	.4	2.5	1.0	.1	.0	.0	4.0	8.5	3.2	2.2	1.7	3.3	3.9	7.4	7.1	4.6	
E	.8	2.1	1.0	.2	.0	.0	4.2	8.6	2.2	.7	3.3	1.5	3.3	7.4	9.9	5.2	
SE	.7	4.3	3.4	.8	.5	.0	9.7	12.7	10.5	12.9	5.6	5.3	8.9	7.9	11.5	17.8	
S	1.2	9.9	7.9	2.6	.3	.0	21.8	12.6	27.1	19.4	15.3	19.7	19.0	23.5	22.4	25.0	
SW	1.0	5.8	4.6	.8	.0	.0	12.2	10.8	11.5	15.8	13.8	19.9	10.8	15.8	7.7	12.4	
W	1.0	5.5	2.3	.8	.0	.0	9.6	10.4	7.1	16.0	9.2	13.9	8.8	11.5	8.6	13.9	
NW	1.5	7.2	3.4	.8	.1	.0	13.0	9.6	9.5	16.0	21.0	19.2	13.8	12.5	7.5	9.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.3						9.3	.0	13.7	3.9	7.3	3.0	12.6	3.1	10.2	1.0	
TOT OBS	277	704	520	133	17	0	1651	10.4	432	103	273	99	285	98	264	97	
TOT PCT	16.8	42.6	31.5	8.1	1.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	18
N	3.7	7.6	4.4	.7	.0	16.4	13.4	14.8	20.5	16.8	14.0	
NE	2.0	1.7	.3	.0	.0	4.0	8.5	3.0	2.2	4.8	6.4	
E	2.2	1.6	.3	.1	.0	4.2	8.6	1.9	2.8	4.4	8.7	
SE	3.1	3.7	2.2	.7	.0	9.7	12.7	11.0	5.5	8.6	13.2	
S	4.6	11.1	5.4	.6	.0	21.8	12.6	25.7	16.5	20.2	23.1	
SW	4.0	5.6	2.5	.2	.0	12.2	10.8	12.3	15.5	12.1	8.9	
W	3.3	4.4	1.5	.3	.0	9.6	10.4	8.8	10.4	9.5	10.0	
NW	5.7	5.3	1.8	.3	.0	13.0	9.6	10.8	20.5	13.4	7.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.3					9.3	.0	11.8	6.2	10.2	7.8	
TOT OBS	625	675	303	47	1	1651	10.4	333	372	383	361	
TOT PCT	37.9	40.9	18.4	2.8	.1	100.0		100.0	100.0	100.0	100.0	

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AREA 0016 WEST COAST KAMCHATKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	11.8	9.2	40.2	31.8	6.5	.6	.0	.0	9.9	100.0	535
0600Z	6.2	4.8	43.0	34.7	9.1	2.2	.0	.0	11.5	100.0	372
1201Z	10.2	7.6	41.0	31.1	9.1	1.0	.0	.0	10.4	100.0	383
1802Z	7.8	7.8	47.6	28.3	8.0	.6	.0	.0	10.1	100.0	361
TOT	153	124	704	520	133	17	.0	.0	10.4		1651
PCT	9.3	7.5	42.6	31.5	8.1	1.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.1	2.4	5.6	3.5		3.9
NE	1.9	.1	.9	1.8		4.5
E	1.0	.1	.6	2.4		5.8
SE	.8	.6	1.6	3.9		6.7
S	1.4	1.2	4.8	13.0		6.9
SW	1.4	.6	2.2	4.9		6.3
W	1.3	1.7	2.9	2.4		5.4
NW	4.1	2.0	4.1	2.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	4.4	1.4	2.5	3.9		4.3
TOT OBS	271	114	280	450	1115	5.3
TOT PCT	24.3	10.2	25.1	40.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.9	.0	.0	.3	.8	2.9	1.3	.7	.0	.1	12.7	
NE	.7	.0	.1	.0	.5	.6	.4	.0	.1	.0	2.3	
E	.3	.0	.1	.5	.5	.9	.4	.0	.1	.0	1.2	
SE	1.2	.9	.3	.8	1.5	2.4	.7	.1	.1	.0	1.9	
S	1.6	.2	.1	1.2	4.0	6.7	2.2	.2	.4	.0	3.8	
SW	.6	.0	.3	.7	1.2	2.4	.6	.7	.0	.0	2.6	
W	.2	.0	.1	1.0	1.3	1.4	.3	.2	.0	.0	3.8	
NW	.2	.0	.1	.7	2.0	1.4	.5	.7	.1	.0	7.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	.0	.1	.3	.7	1.3	.7	.2	.1	.0	7.0	
TOT OBS	83	2	12	61	140	224	78	31	9	1	474	1115
TOT PCT	7.4	.2	1.1	5.3	12.6	20.1	7.0	2.8	.8	.1	42.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>3
> OR >6500	.6	.8	.9	.9	.9	.9	.9	.9
> OR >5000	1.4	2.3	3.5	3.6	3.6	3.6	3.6	3.6
> OR >3500	5.0	9.1	10.7	10.8	10.8	10.8	10.8	10.8
> OR >2000	14.6	22.2	30.6	30.9	30.9	30.9	30.9	30.9
> OR >1000	19.5	34.7	42.5	43.1	43.1	43.4	43.4	43.4
> OR >600	21.3	38.9	47.6	48.6	48.6	48.8	48.8	48.8
> OR >300	21.3	39.3	48.3	49.5	49.6	50.0	50.0	50.0
> OR >150	21.3	39.4	48.4	49.6	49.8	50.2	50.2	50.2
> OR >0	21.3	39.4	49.2	51.2	52.0	53.5	57.6	57.6
TOTAL	243	444	553	577	587	603	650	650

TOTAL NUMBER OF OBS: 1128

PCT FREQ NH <5/8: 42.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	14.9	7.2	8.7	4.6	5.7	4.6	6.9	8.0	32.3	7.1	1231

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974AREA 0016 WEST COAST KAMCHATKA
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	*	.2	1.7	1.8	.2	.3	*	.0	.0	4.5	
	NO PCP	.6	.4	.2	.4	2.3	.4	.1	.1	.0	1.6	6.1	
	TOT %	.8	.4	.4	2.0	4.1	.7	.4	.2	.0	1.6	10.5	
1/2<1	PCP	.0	.0	.1	.2	.1	.1	.0	.1	.0	.2	.7	
	NO PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.1	.3	
	TOT %	.0	.1	.1	.3	.1	.1	.0	.1	.0	.3	1.0	
1<2	PCP	.0	.0	.1	.2	.5	.2	.0	.0	.0	.0	1.1	
	NO PCP	.3	.2	.1	.1	.3	.1	.0	*	.0	.1	1.0	
	TOT %	.3	.2	.2	.2	.8	.3	.0	*	.0	.1	2.1	
2<5	PCP	.1	.1	.3	1.0	1.6	.4	.3	.0	.0	.2	4.0	
	NO PCP	.8	.3	.5	.7	1.7	1.1	.2	.3	.0	.8	6.4	
	TOT %	.9	.5	.8	1.8	3.3	1.6	.4	.3	.0	1.0	10.4	
5<10	PCP	.1	.1	.3	.5	.6	.1	.4	.2	.0	.1	2.5	
	NO PCP	4.6	.7	1.7	1.7	5.2	2.1	1.8	3.1	.0	2.0	21.9	
	TOT %	4.7	.8	1.0	2.2	5.8	2.2	2.2	3.3	.0	2.1	24.3	
10+	PCP	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	NO PCP	11.7	2.5	1.6	3.6	8.6	3.9	5.3	8.2	.0	5.9	51.4	
	TOT %	11.7	2.5	1.6	3.6	8.6	4.0	5.4	8.2	.0	5.9	51.7	
TOT OBS													1413
TOT PCT		18.5	4.4	4.1	10.2	22.8	8.7	8.4	12.1	.0	10.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.5	.3	.3	.6	.5	.7	.0	1.4	4.6	
	4-10	.6	.3	.6	2.1	4.4	2.4	1.9	2.0	.0	.0	14.3	
	11-21	.4	.1	.0	.3	1.4	1.9	.7	.2	.0	.0	5.0	
	22+	.2	.0	.0	.2	1.0	.4	.1	.0	.0	.0	1.9	
	TOT %	1.4	.5	1.1	2.9	7.1	5.2	3.2	2.9	.0	1.4	25.7	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.3	
	4-10	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.0	.0	*	.1	.1	.1	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	*	.3	.1	.1	.0	.1	.0	.2	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.1	*	.0	.1	.1	.0	*	.0	.0	.6	
	11-21	.1	.1	.1	*	.2	.1	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.5	
	TOT %	.3	.1	.2	.2	.5	.2	.0	*	.0	.1	1.6	
2<5	0-3	*	.1	.0	*	.1	.1	.0	.1	.0	.8	1.2	
	4-10	.3	.2	.3	.3	.7	.4	.2	.1	.0	.0	2.3	
	11-21	.2	.2	.3	.7	1.5	.9	.1	.1	.0	.0	4.1	
	22+	.2	.0	.1	.4	.5	.2	.2	*	.0	.0	1.5	
	TOT %	.7	.4	.7	1.4	2.9	1.6	.5	.4	.0	.8	9.4	
5<10	0-3	.1	*	.1	.1	.5	.1	.1	.3	.0	1.7	2.9	
	4-10	1.0	.6	.4	.5	1.4	1.0	.9	1.3	.0	.0	7.3	
	11-21	2.0	.1	.1	1.0	1.9	.7	.5	.6	.0	.0	6.9	
	22+	.9	.0	.2	.2	.7	.0	.2	.4	.0	.0	2.7	
	TOT %	4.1	.7	.8	1.8	4.5	1.8	1.7	2.8	.0	1.7	20.0	
10+	0-3	.6	.2	.2	.3	.2	.2	.4	.4	.0	5.1	7.7	
	4-10	3.4	1.1	.6	1.4	3.1	1.8	2.4	3.6	.0	.0	17.5	
	11-21	5.1	.7	.4	1.3	2.8	1.0	1.2	2.3	.0	.0	15.0	
	22+	.8	.1	.1	.1	.4	.1	.3	.4	.0	.0	2.3	
	TOT %	9.9	2.1	1.3	3.1	6.5	3.2	4.2	6.9	.0	5.1	42.4	
TOT OBS													1616
TOT PCT		16.4	3.9	4.1	9.7	21.6	12.2	9.7	13.1	.0	9.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
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AREA 0016 WEST COAST KAMCHATKA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.6	.4	1.1	4.2	11.9	23.9	8.6	3.5	2.0	.0	62.4	37.6	432
06009	5.7	.0	1.1	8.0	10.7	14.9	7.7	2.3	.0	.0	50.6	49.4	261
12015	6.1	.0	.9	4.8	10.0	19.1	4.8	1.7	.0	.4	47.8	52.2	230
18021	12.7	.0	1.4	5.0	16.3	17.2	5.4	2.3	.0	.0	60.2	39.8	221
TOT PCT	87 7.5	2 .2	13 1.1	62 5.3	141 12.1	229 19.7	82 7.0	31 2.7	9 .8	1 .1	657 56.4	507 43.6	1164 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	20.4	.5	1.4	7.6	18.3	51.8	589
06009	25.7	1.3	1.0	8.0	23.1	40.9	389
12015	24.4	.5	2.3	11.5	21.8	39.5	390
18021	30.3	1.3	2.4	12.3	18.8	34.9	373
TOT PCT	428 24.6	15 .9	30 1.7	167 9.6	353 20.3	748 43.0	1741 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.3	8.3	19.5	43.5	37.0	446
06009	5.8	7.8	23.6	27.9	48.4	258
12015	6.1	7.0	25.8	27.7	46.5	213
18021	13.7	15.2	33.6	31.3	35.1	211
TOT PCT	85 7.5	104 9.2	274 24.3	391 34.7	463 41.0	1128 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.6	.0	.0	1.1	.6	4	2.2
50/54	.0	.0	.0	.0	.0	7.2	19.9	21.5	88	48.6
45/49	.0	.0	.0	.0	1.1	7.7	11.6	27.1	86	47.5
40/44	.0	.0	.0	.0	.0	.0	.6	1.1	3	1.7
TOTAL PCT	0 .0	0 .0	0 .0	1 .6	2 1.1	27 14.9	60 33.1	91 50.3	181	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.6	.0	.0	.0	.0	.0	1.1	.6	.0	.0
50/54	9.1	1.1	.0	1.9	9.8	8.7	8.3	8.6	.0	1.1
45/49	4.4	.7	1.9	8.4	8.6	2.9	10.8	9.3	.0	.6
40/44	.0	.0	.6	.0	.0	.1	1.0	.0	.0	.0
TOTAL	14.1	1.8	2.5	10.4	18.4	11.7	21.1	18.4	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	65	61	57	51	45	39	37	51.1	381
06009	68	64	59	52	46	41	34	52.5	384
12015	61	57	53	50	45	41	36	50.1	397
18021	57	55	54	50	41	37	34	49.0	379
TOT	68	61	57	50	45	39	34	50.7	1741

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.4	2.4	19.0	45.2	31.0	85	42
06009	.0	.0	2.1	14.9	27.7	55.3	89	47
12015	.0	.0	.0	9.1	29.5	61.4	91	44
18021	.0	.0	.0	16.7	31.3	52.1	90	48
TOT	0	1	2	27	60	91	89	181

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.1	3	.0	.4
11/13	.0	.0	.0	.0	.0	.2	.4	.1	.0	6	.1	.6
9/10	.0	.0	.0	.0	.4	.7	.4	.4	.0	13	.2	1.3
7/8	.0	.0	.0	1.1	.2	.6	.8	.6	.0	28	.1	3.2
6	.0	.0	.0	.2	.5	.5	.0	.0	.0	10	.1	1.1
5	.0	.0	.0	.0	1.8	2.0	1.1	.0	.0	41	.0	4.9
4	.0	.0	.0	.6	2.4	1.9	1.1	.1	.0	31	.6	5.3
3	.0	.0	.1	1.4	2.4	.7	.1	.0	.0	40	.7	4.1
2	.0	.0	.1	2.1	5.2	5.7	.2	.1	.0	114	1.6	11.8
1	.0	.0	.2	2.5	3.2	1.5	.1	.0	.0	64	.4	7.3
0	.0	.0	.0	6.8	12.2	4.5	.1	.0	.0	198	1.3	22.3
-1	.0	.0	.1	3.2	2.6	.4	.0	.0	.0	54	.6	5.8
-2	.0	.0	.7	4.9	2.9	.6	.0	.0	.0	76	.5	8.6
-3	.0	.0	.2	1.8	1.9	.0	.0	.0	.0	32	.4	3.6
-4	.0	.1	.4	1.8	2.0	.5	.0	.0	.0	40	.1	4.6
-5	.1	.0	1.0	1.7	.7	.0	.0	.0	.0	29	.4	3.1
-6	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
-7/-8	.0	.1	.7	.2	.8	.0	.0	.0	.0	16	.0	1.9
-9/-10	.0	.4	.2	.1	.2	.0	.0	.0	.0	8	.1	.8
-11/-13	.0	.5	.0	.7	.0	.0	.0	.0	.0	10	.0	1.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	9	33	246	169	36	12	.1	839	62	7.4	92.6
PCT	.2	1.1	3.9	29.3	39.5	20.1	4.3	1.4	.1	100.0	7.4	92.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	2.1	.2	.0	.0	.0	2.8	.0	.9	.0	.0	.0	.0	.9
1-2	.2	3.2	.9	.0	.0	.0	4.3	.0	.3	.3	.0	.0	.0	.3
3-4	.0	.8	3.6	.2	.0	.0	4.6	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.2	2.5	.6	.0	.0	3.3	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	1.5	.2	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.3	9.2	1.0	.0	.0	17.2	.0	1.3	.9	.2	.0	.0	2.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.4	.4	.0	.0	.0	2.1	.1	1.5	.7	.0	.0	.0	2.2
1-2	.0	.4	.2	.0	.0	.0	.6	.1	.6	1.3	.0	.0	.0	1.9
3-4	.0	.2	.2	.0	.0	.0	.4	.2	.8	2.3	.0	.0	.0	3.3
5-6	.0	.2	.2	.0	.0	.0	.4	.2	.2	1.1	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.3	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	1.1	.0	.0	.0	3.4	.5	3.3	6.2	.5	.3	.0	10.9

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.9	.2	.0	.0	.0	3.9	.1	2.1	.0	.0	.0	.0	2.1
1-2	.2	3.8	3.3	.0	.0	.0	7.2	.0	3.0	.9	.0	.0	.0	3.9
3-4	.0	.6	5.0	.0	.0	.0	5.6	.0	.7	2.0	.4	.0	.0	3.1
5-6	.0	.6	1.3	.7	.0	.0	2.5	.0	.1	.4	.2	.0	.0	.8
7	.0	.2	.8	1.9	.0	.0	2.9	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.2	.7	.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	8.1	10.8	3.6	.4	.0	23.7	.1	6.0	3.3	.7	.0	.0	10.1

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.9	.2	.0	.0	.0	1.3	.0	1.6	.1	.0	.0	.0	1.7	94.1
1-2	.2	2.0	.2	.0	.0	.0	2.4	.1	2.8	1.0	.0	.0	.0	3.9	
3-4	.0	.2	1.4	.2	.0	.0	1.7	.0	1.6	3.1	.2	.0	.0	4.9	
5-6	.0	.9	.7	.7	.0	.0	2.3	.0	.5	2.5	.3	.0	.0	3.3	
7	.0	.2	.9	.2	.0	.0	1.3	.0	.2	.5	.3	.0	.0	1.0	
8-9	.0	.0	.6	.4	.2	.0	1.2	.0	.0	.2	.2	.1	.0	.4	
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.3	4.3	1.8	.2	.0	10.9	.1	6.8	7.4	1.0	.1	.0	15.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	13.6	1.8	.0	.0	.0	22.3	457
1-2	1.1	16.0	8.1	.0	.0	.0	25.2	
3-4	.4	4.8	17.9	1.1	.0	.0	24.3	
5-6	.2	2.8	9.0	2.4	.0	.0	14.4	
7	.0	1.1	4.2	2.8	.0	.0	8.1	
8-9	.0	.0	1.8	1.8	.4	.0	3.9	
10-11	.0	.0	.7	.4	.2	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	38.3	43.3	8.8	.9	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	9.7	9.6	5.7	1.8	.4	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	301	3
6-7	.0	.4	3.9	4.9	4.6	2.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	6
8-9	.0	.3	.2	.3	.5	.6	.8	.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	9
10-11	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
>13	.0	.0	.0	.1	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDEX	11.9	1.9	19.1	7.9	5.2	2.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	507	3
TOTAL	136	131	347	198	139	55	18	3	18	1	0	0	0	0	0	0	0	0	0	1036	4
PCT	13.1	12.6	33.5	19.1	12.5	5.3	1.7	.3	1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

OCTOBER

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	9.3	.0	2.4	.0	8.3	.0	.0	18.1	4.8	.0	.7	.0	.0	.0	76.5
NE	19.3	.0	3.7	1.5	3.3	.0	1.5	25.9	4.4	.0	3.0	.0	.0	.0	66.7
E	10.5	.0	3.8	.0	8.1	.0	.0	19.5	1.9	.0	.0	.0	.0	.0	78.6
SE	16.9	.0	3.0	.0	2.8	.0	.0	22.5	5.3	.0	1.0	1.0	.0	.0	70.2
S	15.4	1.1	4.0	.0	2.7	.6	.6	24.4	6.2	.6	3.9	.0	1.6	.0	63.9
SW	9.5	.0	3.5	.0	2.6	.0	2.6	18.3	7.5	2.6	2.9	.0	.2	.0	70.3
W	9.6	2.0	2.0	.0	4.5	.0	3.8	20.9	11.1	.0	1.8	.0	.0	.0	66.2
NW	5.3	.8	.8	.0	11.2	.0	.2	17.4	12.5	.0	1.1	.0	.0	.0	68.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1	.0	5.1	.0	5.1	.0	.0	15.4	5.1	.0	.0	.0	.0	.0	79.5
TOT PCT	11.5	.6	2.9	.1	5.3	.1	1.0	20.6	7.1	.5	1.9	.1	.3	.0	69.7
TOT OBS:	882														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOURL (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	9.6	.8	1.8	.3	6.0	.0	1.3	18.4	6.5	.0	2.8	.3	.0	.0	72.0
06009	13.7	.5	3.8	.0	3.3	.5	.0	21.4	7.7	.0	2.2	.0	.5	.0	68.1
12015	13.4	.5	4.3	.0	5.9	.0	1.6	24.6	8.0	1.6	1.1	.0	.0	.0	65.8
18021	12.5	.0	2.6	.0	5.3	.0	.7	21.1	7.2	.7	.0	.0	1.3	.0	70.4
TOT PCT TOT OBS:	11.7 907	.6	2.9	.1	5.3	.1	1.0	20.7	7.2	.4	1.9	.1	.3	.0	69.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	4.9	5.6	1.2	.2	.0		12.1	13.3		10.5	.0	13.8	9.1	12.6	7.7	14.7	9.1
NE	.1	4.1	3.5	.3	.0	.0		8.0	11.8		8.2	.0	5.8	9.1	10.8	7.7	7.8	.0
E	.2	3.7	2.0	.2	.0	.0		6.1	9.7		6.1	.0	4.5	.0	7.6	.0	7.8	6.8
SE	.5	4.2	4.4	1.5	.5	.0		11.1	14.1		13.6	9.1	10.0	.0	7.5	15.4	11.7	11.4
S	.4	3.7	9.1	5.2	1.0	.1		19.6	18.3		23.3	9.1	19.8	9.1	18.7	21.2	13.1	25.0
SW	.3	3.3	4.3	2.7	1.8	.0		12.3	19.2		9.2	38.6	13.4	18.2	9.9	9.6	18.1	20.5
W	.1	3.3	5.5	1.8	.9	.0		11.5	17.0		11.6	13.6	10.0	15.9	14.5	26.9	8.5	.0
NW	.3	4.5	6.7	3.5	.5	.0		15.4	16.5		13.7	29.5	18.0	20.5	14.9	11.5	14.7	27.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0		3.7	.0	4.8	18.2	3.4	.0	3.5	.0
TOT OBS	51	269	350	139	41	1	851		15.1		322	11	168	11	174	13	141	11
TOT PCT	6.0	31.6	41.1	16.3	4.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	06	12	18	21
N	2.3	6.3	3.0	.5	.0		12.1	13.3		10.1	13.5	12.3	14.3	
NE	1.6	4.6	1.7	.0	.0		8.0	11.8		8.0	6.0	10.6	7.2	
E	2.7	2.8	.5	.1	.0		6.1	9.7		5.9	4.2	7.1	7.7	
SE	2.4	5.6	1.8	1.3	.0		11.1	14.1		13.4	9.4	8.0	11.7	
S	1.6	7.6	8.0	1.9	.5		19.6	18.3		22.8	19.1	18.9	14.0	
SW	1.0	4.8	3.8	2.3	.5		12.3	19.2		10.2	13.7	9.9	18.3	
W	1.8	4.7	3.6	1.0	.5		11.5	17.0		11.6	10.3	15.4	7.9	
NW	1.7	7.3	4.5	1.8	.2		15.4	16.5		14.3	18.2	14.7	15.6	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	3.9						3.9	.0		3.6	5.6	3.2	3.3	
TOT OBS	162	371	229	75	14	851		15.1		333	179	187	152	
TOT PCT	19.0	43.6	26.9	8.8	1.6		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

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AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.6	2.1	33.6	39.0	16.8	4.5	.3	14.9	100.0	333
0600Z	5.6	2.2	29.6	41.9	16.2	4.5	.0	14.8	100.0	179
1200Z	3.2	2.1	32.6	41.7	14.4	5.9	.0	15.7	100.0	187
1800Z	3.3	2.0	28.3	44.1	17.8	4.6	.0	15.3	100.0	152
TOT	3.3	1.8	26.9	350	139	41	1	15.1		851
PCT	3.9	2.1	31.6	41.1	16.3	4.8	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.9	3.9	5.5		5.9
NE	2.1	1.0	2.2	2.7		5.0
E	.7	.3	1.8	2.8		6.3
SE	1.6	.6	2.6	7.1		6.4
S	.8	.9	5.2	12.1		7.0
SW	.4	1.3	5.3	5.4		6.5
W	.6	.7	5.5	4.3		6.4
NW	1.2	1.7	6.3	6.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	.4	1.4	1.8		5.5
TOT OBS	77	57	251	351	736	6.3
TOT PCT	10.5	7.7	34.1	47.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.2	.5	2.5	2.4	1.1	.1	.4	.0	5.0	
NE	.1	.0	.0	.3	.8	1.1	.7	.1	.3	.0	4.5	
E	.1	.0	.0	.0	1.1	1.2	1.2	.3	.4	.0	1.4	
SE	.3	.1	.6	1.5	3.0	1.7	.2	.3	.3	.3	3.8	
S	.5	.2	.1	1.1	4.3	4.5	3.4	.5	.4	.0	4.1	
SW	.3	.1	.0	.4	3.4	3.1	2.1	.4	.0	*	2.1	
W	.2	.0	.4	.1	2.0	3.4	1.4	.1	.1	.1	3.3	
NW	.4	.1	.3	.3	3.2	3.6	2.8	.1	.1	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.5	1.0	.4	.1	.1	.3	1.8	
TOT OBS	16	4	10	27	142	171	108	15	16	5	222	736
TOT PCT	2.2	.5	1.4	3.7	19.3	23.2	14.7	2.0	2.2	.7	30.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.3	2.6	2.8	2.8	2.8	2.8	2.8	2.8
>5000	3.2	4.6	4.8	4.8	4.8	4.8	4.8	4.8
>3500	8.1	17.1	19.2	19.5	19.7	19.7	19.7	19.7
>2000	20.5	35.4	40.8	42.0	42.7	42.7	42.7	42.7
>1000	25.3	48.3	58.7	61.0	62.0	62.3	62.3	62.3
>800	25.7	49.7	61.9	64.5	65.5	65.9	65.9	65.9
>300	25.7	50.1	63.0	65.5	66.8	67.2	67.3	67.3
>150	25.7	50.3	63.4	65.9	67.3	67.7	67.8	67.8
>0	25.8	51.0	64.3	67.3	68.6	69.4	70.0	70.0
TOTAL	192	379	478	500	510	516	520	520

TOTAL NUMBER OF OBS: 743

PCT FREQ NH <5/8: 30.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.9	2.6	5.4	3.6	5.1	3.9	11.6	10.5	44.6	1.7	869

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

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AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.1	.0	.1	.0	.3	.2	.6	.0	.0	1.7	
	NO PCP	.0	.0	.0	.1	.0	.0	.1	*	.0	.0	.2	
	TOT %	.3	.1	.0	.2	.0	.3	.3	.7	.0	.0	1.9	
1/2<1	PCP	.0	.1	.2	.3	.7	*	.1	.0	.0	.0	1.4	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.1	.1	.2	.3	.7	*	.1	*	.0	.0	1.5	
1<2	PCP	.6	.2	.2	.2	.5	.4	.6	.4	.0	.1	3.3	
	NO PCP	.0	.0	.0	.1	.2	.1	.1	.3	.0	.0	.8	
	TOT %	.6	.2	.2	.3	.7	.4	.7	.8	.0	.1	4.1	
2<5	PCP	.8	1.0	.5	.7	2.2	.8	.5	1.1	.0	.2	7.9	
	NO PCP	1.2	.6	.8	.6	1.7	1.8	1.5	1.7	.0	.3	10.3	
	TOT %	2.0	1.6	1.3	1.3	4.0	2.5	2.0	2.9	.0	.6	18.2	
5<10	PCP	.5	.5	.2	1.2	1.2	.6	.9	.5	.0	.3	6.0	
	NO PCP	2.7	1.7	.9	2.7	5.6	4.9	2.1	5.0	.0	.5	26.0	
	TOT %	3.1	2.2	1.1	3.9	6.8	5.5	3.1	5.4	.0	.8	32.0	
10+	PCP	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.6	
	NO PCP	5.8	3.3	3.1	4.9	7.5	3.6	5.2	5.2	.0	3.0	41.7	
	TOT %	5.8	3.3	3.1	5.0	7.6	3.8	5.2	5.4	.0	3.0	42.3	
TOT OBS													873
TOT PCT		11.9	7.6	5.9	11.1	19.8	12.7	11.4	15.1	.0	4.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.1	.1	*	.0	.0	.4	
	11-21	.1	.1	.0	.1	.0	.1	.2	*	.0	.0	.7	
	22+	.2	.0	.0	.0	.0	.1	.0	.6	.0	.0	1.0	
	TOT %	.3	.1	.0	.2	.0	.4	.3	.7	.0	.0	2.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.2	.1	.0	.0	*	.0	.0	.6	
	11-21	.0	.0	.1	*	.2	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.1	.2	*	.1	.0	.0	.0	.5	
	TOT %	.1	.1	.2	.3	.7	*	.1	*	.0	.0	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.3	.1	.1	.0	.1	.0	.0	.2	.0	.0	.9	
	11-21	.3	.1	.1	.2	.5	.2	.6	.6	.0	.0	2.7	
	22+	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.4	
	TOT %	.6	.2	.2	.4	.6	.3	.6	.8	.0	.1	4.1	
2<5	0-3	.0	.1	.1	.0	.0	.0	.0	.2	.0	.6	1.1	
	4-10	1.1	1.0	.9	.3	.2	.6	.5	.6	.0	.0	5.2	
	11-21	.6	.5	.4	.6	1.9	.8	.6	1.5	.0	.0	6.8	
	22+	.2	.1	.0	.4	2.0	1.2	1.1	.6	.0	.0	5.7	
	TOT %	1.9	1.7	1.4	1.3	4.1	2.6	2.1	2.9	.0	.6	18.8	
5<10	0-3	.1	.0	.0	.2	.2	.2	.1	.0	.0	.7	1.6	
	4-10	1.1	1.1	.5	1.1	1.3	1.0	.9	1.6	.0	.0	8.5	
	11-21	1.6	1.1	.3	1.7	3.0	2.1	1.4	2.4	.0	.0	13.6	
	22+	.4	*	.1	1.0	2.2	2.4	.8	1.5	.0	.0	8.4	
	TOT %	3.2	2.3	1.0	4.0	6.7	5.6	3.2	5.5	.0	.7	32.2	
10+	0-3	.0	.0	.1	.4	.1	*	.0	.0	.0	2.5	3.1	
	4-10	2.3	1.9	2.0	2.5	2.0	1.7	1.9	1.7	.0	.0	16.0	
	11-21	2.5	1.4	1.0	1.5	3.6	1.1	2.7	2.6	.0	.0	16.3	
	22+	.5	.2	.1	.5	1.9	.7	.7	1.1	.0	.0	5.8	
	TOT %	5.4	3.5	3.2	4.8	7.6	3.5	3.3	3.5	.0	2.5	41.2	
TOT OBS													808
TOT PCT		11.6	8.0	6.0	11.0	19.8	12.5	11.7	15.4	.0	4.0	100.0	

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PERIOD: (PRIMARY) 1957-1974
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54.3N 155.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	1.9	.8	1.1	2.7	21.0	26.8	13.7	2.2	2.7	1.4	74.3	25.7	366
06609	1.9	.0	1.3	4.5	19.5	25.3	14.9	1.9	1.9	.0	71.4	28.6	194
12615	3.3	.0	2.0	4.6	11.1	9.8	17.0	2.6	1.7	.0	51.6	48.4	153
18621	1.0	1.0	1.0	3.1	25.0	22.9	15.6	.0	1.0	.0	70.8	29.2	96
TOT	16	4	10	27	148	174	114	15	16	5	529	240	769
PCT	2.1	.5	1.3	3.5	19.2	22.6	14.8	2.0	2.1	.7	68.8	31.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00603	1.6	1.6	2.6	11.2	27.0	56.1	985
06609	2.2	.5	4.9	20.0	30.3	42.2	185
12615	2.2	3.3	4.9	25.8	36.8	26.9	182
18621	2.0	.0	6.1	24.5	42.2	25.2	147
TOT	17	13	37	163	289	380	899
PCT	1.9	1.4	4.1	18.1	32.1	42.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00603	1.9	5.2	18.2	57.5	24.3	362
06609	2.0	4.0	25.8	45.7	28.5	151
12615	3.5	9.2	35.5	28.4	36.2	141
18621	1.1	3.4	25.8	47.2	27.0	89
TOT	16	41	178	359	206	743
PCT	2.2	5.5	24.0	48.3	27.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.9	1.7	3	2.6	
45/49	.0	.0	.0	.0	1.7	3.5	4.3	6.1	18	15.7
40/44	.0	.0	.0	.0	1.7	9.6	24.3	19.1	63	54.8
35/39	.0	.0	.0	.0	.0	2.6	8.7	14.8	30	26.1
30/34	.0	.0	.0	.0	.0	.0	.9	.9	1	.9
TOTAL	0	0	0	0	4	18	44	49	115	100.0
PCT	.0	.0	.0	.0	3.5	15.7	38.3	42.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	1.7	.0	.9	.0	.0
.0	.9	.0	3.9	3.0	2.8	3.0	2.0	.0	.0
9.1	2.2	4.6	9.3	10.2	8.5	4.3	4.8	.0	1.7
3.5	1.1	3.0	2.8	3.3	1.1	4.3	4.3	.0	2.6
.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.5	4.1	7.6	16.1	16.5	14.1	11.7	12.0	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	58	55	51	41	32	26	21	41.3	373
06609	54	52	50	42	34	29	21	42.2	174
12615	55	54	50	41	32	27	26	41.0	187
18621	54	51	48	41	32	28	23	40.6	149
TOT	58	54	50	41	32	27	21	41.3	883

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	10.0	16.7	36.7	36.7	85	30		
06609	.0	.0	3.4	17.2	24.1	55.2	89	29		
12615	.0	.0	.0	15.6	43.8	40.6	89	32		
18621	.0	.0	.0	12.5	50.0	37.5	89	24		
TOT	0	0	4	18	44	49	88	115		

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54.3N 135.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	.2	.0	.2	3	.0	.7
9/10	.0	.0	.0	.0	.2	.7	.0	.2	.2	6	.0	1.4
7/8	.0	.0	.0	.0	2.9	.9	.0	.0	.0	17	.0	3.8
6	.0	.0	.0	.0	.0	.3	.0	.0	.0	2	.0	.5
5	.0	.0	.0	.0	3.2	.9	.2	.5	.0	21	.0	4.8
4	.0	.0	.0	1.1	1.8	.9	.9	.7	.0	24	.2	5.2
3	.0	.0	.0	.0	.0	.9	1.1	.2	.0	10	.2	2.0
2	.0	.0	.0	1.8	1.6	1.1	.2	.2	.0	22	.0	5.0
1	.0	.0	.0	.7	.5	2.7	.5	.0	.0	19	.0	4.3
0	.0	.0	.0	.9	1.8	3.8	.5	.0	.0	31	.2	6.8
-1	.0	.0	.0	.5	2.5	1.6	.5	.0	.0	22	.0	5.0
-2	.0	.0	.9	.9	4.8	2.3	.0	.0	.0	39	.0	8.8
-3	.0	.0	.0	2.0	4.5	2.4	.0	.0	.0	40	.5	8.6
-4	.0	.0	.9	3.4	4.1	.5	.0	.0	.0	39	.0	8.8
-5	.0	.5	1.1	5.2	2.5	.0	.0	.0	.0	41	.0	9.3
-6	.0	.2	1.6	2.9	.7	.0	.0	.0	.0	24	.0	5.4
-7/-8	.0	.2	3.4	2.7	.5	.0	.0	.0	.0	30	.7	6.6
-9/-10	.2	.7	1.6	1.8	.7	.2	.0	.0	.0	23	.0	5.2
-11/-13	.0	.9	1.6	.5	.2	.2	.0	.0	.0	15	.0	3.4
-14/-16	.2	.0	.5	.0	.7	.0	.0	.0	.0	6	.0	1.4
-17/-19	.0	.0	.2	.7	.7	.0	.0	.0	.0	7	.0	1.6
-20/-22	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	3	11	52	111	149	88	18	8	2	462	6	436
PCT	.7	2.5	11.8	25.1	33.7	19.9	4.1	1.8	.5	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	1.4	.4	.0	.0	.0	1.8
1-2	.0	2.3	2.1	.0	.0	.0	4.4	.0	2.1	.9	.0	.0	.0	3.0
3-4	.0	1.1	.8	.0	.0	.0	1.8	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.7	.0	.0	1.0	.0	.0	.1	.5	.0	.0	.6
8-9	.0	.0	.4	.0	.4	.0	.8	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	6.0	.7	.4	.0	11.8	.0	3.5	1.8	.5	.0	.0	5.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.8	.0	.0	.0	.0	2.8	.9	3.0	.0	.0	.0	.0	3.8
1-2	.0	.8	.6	.0	.0	.0	1.3	.4	1.5	2.0	.0	.0	.0	3.9
3-4	.0	.4	1.0	.4	.0	.0	1.7	.0	.4	.2	.0	.0	.0	.6
5-6	.0	.0	.0	.4	.0	.0	.4	.0	.0	.9	.4	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.4	.4	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.4	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	1.9	.8	.0	.0	6.6	1.2	4.9	3.8	2.4	1.1	.0	13.5

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.3	1.0	.0	.0	.0	2.6	.0	2.1	.2	.0	.0	.0	2.3
1-2	.4	1.5	2.8	.0	.0	.0	4.7	.0	.3	.8	.0	.0	.0	1.2
3-4	.0	.4	1.8	.4	.0	.0	2.6	.0	.4	1.2	.4	.0	.0	2.0
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.2	.0	.4	.0	.6
7	.0	.4	1.9	1.7	.0	.0	4.0	.0	.0	.4	1.3	.0	.0	1.7
8-9	.0	.3	.4	.0	.0	.0	.7	.0	.1	.4	.0	.0	.0	.5
10-11	.0	.0	.4	.8	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.9	9.6	3.5	.0	.0	17.7	.0	3.1	3.5	1.7	.4	.0	8.7

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.6	.0	.0	.0	.0	2.6	.0	1.5	.0	.0	.0	.0	1.5	
1-2	.0	1.3	3.0	.0	.0	.0	4.3	.0	2.2	1.3	.0	.0	.0	3.5	
3-4	.0	.3	1.7	1.4	.0	.0	3.4	.0	1.0	2.8	.5	.0	.0	4.2	
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	1.1	.4	.0	.0	1.4	
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.8	1.1	.0	.0	1.9	
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
13-16	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.3	.0	.6	.0	.9	.0	.0	.1	.4	.6	.0	1.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.2	7.7	1.7	.9	.0	14.5	.0	4.7	8.1	3.3	1.1	.0	17.1	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	16.1	1.5	.0	.0	.0	23.0	
1-2	.8	12.3	13.4	.0	.0	.0	26.4	
3-4	.0	3.8	9.6	3.1	.0	.0	16.5	
5-6	.0	.0	6.9	1.1	.4	.0	8.4	
7	.0	.4	5.7	4.6	.0	.0	10.7	
8-9	.0	.4	3.4	1.5	.8	.0	6.1	
10-11	.0	.0	1.1	1.1	.4	.0	2.7	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	1.1	.8	.0	1.9	
17-19	.0	.0	.8	.8	1.1	.0	2.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.4	.0	.4	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	33.0	42.5	14.6	3.8	.0	100.0	261

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.0	5.4	3.7	2.3	1.0	.6	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	4
6-7	.1	.7	2.1	2.3	3.5	1.7	.7	.2	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	7
8-9	.0	.1	.0	.7	1.1	.7	.5	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	8
10-11	.0	.2	.1	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	7	10
12-13	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	1	12
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	0	23
INDET	3.8	1.9	9.5	17.9	19.1	6.2	1.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	492	5
TOTAL	3.9	7.3	14.2	20.0	21.1	7.9	3.1	.8	1.3	1.0	1	2	0	1	0	0	0	0	0	810	6
PCT	4.8	9.0	17.5	24.7	26.0	9.8	3.8	1.0	1.6	1.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.3	.0	4.6	.0	13.1	.0	.0	20.0	2.3	2.3	.0	.0	.0	.0	73.4
NE	1.3	.0	.0	.0	23.4	.0	.0	24.7	5.1	.0	.0	.0	.0	.0	70.3
E	6.7	.0	.0	.0	12.9	.0	.0	19.5	1.9	.0	5.2	.0	.0	.0	73.3
SE	7.5	.0	6.6	.0	9.9	.0	.0	24.0	4.7	.0	5.8	.0	1.1	.0	64.4
S	13.9	.0	9.8	.0	18.6	.0	.0	42.3	7.3	.0	2.3	.0	.0	.0	47.9
SW	16.1	.0	2.7	2.2	16.7	.0	.0	37.6	17.2	.0	2.2	.0	.0	.0	43.0
W	3.4	.0	.0	.0	19.1	.0	.0	20.6	15.7	.0	.0	.0	.0	.0	63.7
NW	3.2	.0	.0	.0	15.9	1.6	3.2	22.2	9.5	1.6	1.6	.0	.0	.0	66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	90.9
TOT PCT	7.0	.0	3.5	.2	15.2	.2	.4	26.0	7.4	.4	2.7	.0	.2	.0	63.5
TOT OBS:	488														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	4.9	.0	3.4	.0	17.7	.0	.5	26.1	9.4	.5	2.5	.0	.5	.0	61.1
0600	8.7	.0	1.9	.0	11.5	.0	.0	21.2	6.7	.0	1.9	.0	.0	.0	70.2
1200	7.5	.0	1.9	.0	12.1	.9	.0	22.6	6.5	.0	2.8	.0	.0	.0	68.2
1800	8.0	.0	8.0	1.1	18.4	.0	1.1	26.8	4.6	1.1	3.4	.0	.0	.0	59.2
TOT PCT TOT OBS:	6.8 501	.0	3.6	.2	15.4	.2	.4	26.1	7.4	.4	2.6	.0	.2	.0	63.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.4	1.3	4.7	2.3	.0	.0		8.6	16.9	9.7	.0	11.2	.0	8.4	.0	5.6	.0
NE	.4	3.5	3.5	.9	.2	.0		8.5	13.0	9.5	.0	8.8	.0	9.3	.0	4.7	.0
E	.6	5.6	3.7	.2	.3	.0		10.4	10.7	10.2	.0	8.1	.0	11.8	.0	11.8	.0
SE	.2	5.5	9.0	2.6	1.2	.1		18.6	15.9	21.0	.0	17.1	.0	18.9	.0	15.0	.0
S	.2	4.7	6.4	2.7	1.8	.6		16.4	19.3	17.2	.0	17.4	.0	13.0	.0	18.2	.0
SW	.0	2.6	4.7	1.4	1.1	.4		10.2	19.4	8.5	.0	7.1	.0	12.5	.0	14.4	.0
W	.2	.7	4.7	3.9	.6	.0		10.1	20.7	12.8	.0	8.1	.0	7.5	.0	10.3	.0
NW	.0	1.9	5.4	4.5	1.1	.0		12.8	20.4	9.2	.0	14.5	.0	13.2	.0	17.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	2.8	.0	7.6	.0	5.5	.0	2.4	.0
TOT OBS	31	122	200	88	30	5	476		16.5	17.6	0	105	0	110	0	85	0
TOT PCT	6.5	25.6	42.0	18.5	6.3	1.1		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	.9	2.9	4.5	.2	.0		8.6	16.9	8.7	11.2	8.4	5.6	
NE	2.0	4.2	2.0	.2	.0		8.5	13.0	9.5	8.8	9.3	4.7	
E	3.7	5.3	.9	.4	.2		10.4	10.7	10.2	8.1	11.8	11.8	
SE	2.3	9.3	4.8	1.6	.5		18.6	15.9	21.0	17.1	18.9	15.0	
S	2.1	5.7	5.0	2.9	.8		16.4	19.3	17.2	17.4	13.0	18.2	
SW	1.1	4.5	2.9	.4	1.3		10.2	19.4	8.5	7.1	12.5	14.4	
W	.4	3.4	4.4	1.6	.2		10.1	20.7	12.8	8.1	7.5	10.3	
NW	.4	4.0	5.4	2.8	.2		12.8	20.4	9.2	14.5	13.2	17.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.4						4.4	.0	2.8	7.6	5.5	2.4	
TOT OBS	83	187	143	48	15	476		16.5	17.6	105	110	85	
TOT PCT	17.4	39.3	30.0	10.1	3.2		100.0		100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(COVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	2.8	2.3	26.7	44.3	17.0	5.7	1.1	16.6	100.0	176
0600	7.6	1.9	24.8	37.1	22.9	4.8	1.0	16.1	100.0	105
1200	5.3	1.8	29.1	39.1	14.5	9.1	.9	16.2	100.0	110
1800	2.4	2.4	20.0	47.1	21.2	5.9	1.2	17.0	100.0	85
TOT	21	10	122	200	88	30	5	16.5		476
PCT	4.4	2.1	25.6	42.0	18.5	6.3	1.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	1.3	2.1	3.9		5.3
NE	.8	1.1	2.7	4.1		6.3
E	1.7	.9	2.2	6.3		8.1
SE	1.7	1.9	3.4	10.9		6.4
S	.4	.6	4.2	11.8		7.2
SW	.6	.4	3.5	4.7		6.5
W	.0	.6	7.3	2.4		6.3
NW	.3	1.3	6.6	3.1		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.5	.3	1.5	1.5		4.7
TOT OBS	36	33	132	192	393	6.3
TOT PCT	9.2	8.4	33.6	48.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.3	.3	1.3	2.7	.0	.0	.6	.0	4.1	
NE	.3	.0	.0	.5	1.4	1.8	.8	.1	.6	.5	2.7	
E	1.3	.0	.8	.2	2.1	2.5	.4	.2	.8	.0	2.8	
SE	.8	.0	.3	.7	4.0	4.8	.9	.8	.3	.0	5.4	
S	.5	.0	1.7	2.4	3.9	1.8	3.4	1.0	.4	.0	2.0	
SW	.5	.3	.1	.3	2.4	2.2	1.1	.0	.0	.0	2.4	
W	.0	.3	.0	.3	3.0	2.9	.3	.8	.0	.0	3.0	
NW	.3	.3	.3	.0	3.1	3.4	1.3	.3	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	1.0	.3	1.0	.0	.0	1.8	
TOT OBS	14	3	13	18	87	91	33	16	11	2	105	393
TOT PCT	3.6	.8	3.3	4.6	22.1	23.2	8.4	4.1	2.8	.5	26.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >5000	4.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7
= OR >3500	5.9	13.9	15.9	15.9	15.9	15.9	15.9	15.9
= OR >2000	18.5	32.9	37.3	37.8	37.8	38.0	39.1	39.1
= OR >1000	23.7	44.7	53.0	56.0	58.9	59.4	61.2	61.2
= OR >600	24.4	45.8	55.5	59.4	63.0	63.8	65.8	65.8
= OR >300	24.9	46.8	57.8	62.0	66.6	67.4	69.4	69.4
= OR >150	24.9	46.8	58.1	62.5	67.4	68.1	70.2	70.2
= OR >0	24.9	46.8	58.4	63.5	69.4	70.4	73.8	73.8
TOTAL	97	182	227	247	270	274	287	287

TOTAL NUMBER OF OBS: 389

PCT FREQ NH <5/8: 26.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.2	.8	6.3	3.8	4.9	7.2	9.5	8.0	49.2	474

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.9	.4	.4	1.3	.0	.4	.4	.0	.0	4.3	
	NO PCP	.0	.0	.6	.3	.2	.2	.0	.2	.0	.2	1.7	
	TOT %	.4	.9	1.0	.7	1.5	.2	.4	.6	.0	.2	6.0	
1/2<1	PCP	.4	.2	.2	1.2	1.2	.9	.6	.6	.0	.0	5.4	
	NO PCP	.0	.0	.2	.3	.2	.0	.0	.2	.0	.0	.9	
	TOT %	.4	.2	.4	1.4	1.4	.9	.6	.8	.0	.0	6.2	
1<2	PCP	.4	.6	.2	.6	1.9	.4	.7	.9	.0	.0	5.8	
	NO PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
	TOT %	.4	.6	.2	.6	2.1	.6	.7	.9	.0	.0	6.2	
2<5	PCP	.0	.0	.4	1.3	1.9	2.0	.2	.6	.0	.0	6.4	
	NO PCP	.6	.1	1.0	1.7	1.8	1.0	1.6	1.6	.0	.4	9.9	
	TOT %	.6	.1	1.4	3.1	3.7	3.0	1.8	2.2	.0	.4	16.3	
5<10	PCP	.6	.2	.2	.9	.7	.3	.2	.6	.0	.2	4.1	
	NO PCP	1.5	1.3	2.0	3.5	3.5	2.0	2.8	4.9	.0	1.7	23.3	
	TOT %	2.1	1.6	2.2	4.3	4.3	2.3	3.1	5.6	.0	1.9	27.4	
10+	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	4.9	4.4	4.4	8.5	3.6	2.4	3.6	3.6	.0	2.1	37.5	
	TOT %	4.9	4.4	4.4	8.7	3.9	2.4	3.6	3.6	.0	2.1	37.9	
TOT OBS													467
TOT PCT		8.2	7.8	9.6	18.9	16.8	9.3	10.3	13.7	.0	4.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.5	
	4-10	.2	.1	.6	.9	.5	.0	.0	.0	.0	.0	1.6	
	11-21	.0	.5	.5	.2	.2	.0	.0	.0	.0	.0	1.4	
	22+	.2	.5	.0	.2	.7	.2	.5	.5	.0	.0	2.7	
	TOT %	.4	1.0	1.1	.7	1.6	.2	.5	.5	.0	.2	6.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	.7	.4	.2	.0	.0	.0	.0	1.8	
	11-21	.2	.0	.0	.5	.6	.5	.2	.7	.0	.0	2.7	
	22+	.2	.0	.2	.3	.5	.2	.5	.0	.0	.0	1.8	
	TOT %	.5	.2	.4	1.5	1.5	.9	.7	.7	.0	.0	6.3	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.0	.0	.0	.1	.2	.0	.0	.0	.5	
	11-21	.2	.5	.0	.2	1.3	.6	.2	.2	.0	.0	3.2	
	22+	.0	.0	.0	.5	.9	.0	.5	.7	.0	.0	2.5	
	TOT %	.5	.7	.0	.7	2.2	.6	.8	.9	.0	.0	6.3	
2<5	0-3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.9	
	4-10	.2	.1	.4	1.1	.6	1.0	.2	.0	.0	.0	3.6	
	11-21	.0	.0	.2	1.3	1.4	.8	1.0	1.2	.0	.0	5.9	
	22+	.2	.0	.2	.6	1.6	1.4	.7	1.1	.0	.0	5.9	
	TOT %	.4	.1	1.2	3.0	3.7	3.2	1.9	2.3	.0	.5	16.3	
5<10	0-3	.2	.0	.2	.0	.0	.0	.0	.0	.0	2.0	2.5	
	4-10	.2	1.0	1.0	1.9	1.9	.9	.2	1.0	.0	.0	8.2	
	11-21	1.4	.6	.7	1.9	1.4	1.0	1.1	2.2	.0	.0	10.2	
	22+	.2	.0	.0	.1	.7	.5	1.8	2.6	.0	.0	5.9	
	TOT %	2.1	1.6	1.9	3.9	4.1	2.4	3.0	5.7	.0	2.0	26.8	
10+	0-3	.0	.5	.0	.2	.0	.0	.2	.0	.0	2.0	2.9	
	4-10	.6	1.5	2.4	1.8	1.5	.4	.2	1.1	.0	.0	9.5	
	11-21	2.8	1.9	1.8	5.1	1.5	1.8	2.3	1.3	.0	.0	18.6	
	22+	1.5	.7	.2	2.1	.7	.1	.6	1.1	.0	.0	7.0	
	TOT %	4.9	4.6	4.4	9.2	3.7	2.3	3.3	3.6	.0	2.0	38.1	
TOT OBS													441
TOT PCT		8.7	8.2	9.1	19.0	16.7	9.6	10.2	13.6	.0	4.8	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	3.2	1.1	4.9	5.4	24.3	22.7	5.9	2.7	5.9	1.1	77.3	22.7	185
06009	1.1	.0	2.2	4.4	23.1	36.3	5.5	4.4	1.1	.0	78.0	22.0	91
12015	3.6	.0	3.6	3.6	16.7	17.9	10.7	4.8	.0	.0	60.7	39.3	84
18021	11.1	2.2	.0	2.2	17.8	8.9	17.8	6.7	.0	2.2	68.9	31.1	45
TOT	15	3	14	18	88	94	33	18	12	3	296	109	405
PCT	3.7	.7	3.5	4.4	21.7	23.2	8.1	4.0	3.0	.7	73.1	26.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	3.0	6.4	7.9	14.3	24.1	44.3	203
06009	4.8	5.8	2.9	16.3	25.0	45.2	104
12015	11.3	7.2	3.1	15.5	35.1	27.8	97
18021	10.4	5.2	9.1	23.4	27.3	24.7	77
TOT	30	30	29	79	130	183	481
PCT	6.2	6.2	6.0	16.4	27.0	38.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	3.3	15.3	33.3	45.9	20.8	183
06009	1.1	10.1	27.0	51.7	21.3	89
12015	5.3	15.8	34.2	35.5	30.3	76
18021	9.8	24.4	34.1	41.5	24.4	41
TOT	15	59	125	174	90	389
PCT	3.9	15.2	32.1	44.7	23.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
50/54	.0	.0	.0	.0	.0	1.9	.0	.0	1	1.9
45/49	.0	.0	.0	.0	1.9	.0	.0	.0	1	1.9
40/44	.0	.0	.0	.0	.0	1.9	17.3	23.1	22	42.3
35/39	.0	.0	.0	.0	.0	3.8	19.2	21.2	23	44.2
30/34	.0	.0	.0	.0	3.8	1.9	1.9	1.9	5	9.6
TOTAL	0	0	0	0	3	5	20	24	52	100.0
PCT	.0	.0	.0	.0	5.8	9.6	38.5	46.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.4	.5	.0	.0	.0	.0	.0	.0
.0	.5	1.4	.0	.0	.0	.0	.0	.0	.0
1.4	8.2	11.5	9.6	3.8	5.8	1.9	.0	.0	.0
8.2	5.8	3.4	10.1	7.2	3.8	5.3	.5	.0	.0
5.3	2.4	.0	.0	.0	.5	1.4	.0	.0	.0
14.9	16.8	17.8	20.2	11.1	10.1	8.7	.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	50	43	41	30	21	16	12	31.2	201
06009	46	45	43	32	21	15	15	32.8	104
12015	46	42	42	32	21	12	12	31.6	113
18021	50	42	40	31	19	11	11	31.3	90
TOT	50	44	41	32	21	14	11	31.6	510

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	6.7	13.3	40.0	40.0	87	15
06009	.0	.0	7.7	15.4	30.8	46.2	87	13
12015	.0	.0	7.7	7.7	46.2	38.5	88	13
18021	.0	.0	.0	.0	36.4	63.6	92	11
TOT	0	0	3	5	20	24	88	52

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	3	.0	1.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	2	.0	.7
5	.0	.0	.0	.0	.0	.0	.0	.4	.7	.4	.4	5	.0	1.9
4	.0	.0	.0	.0	.0	.0	.0	.7	1.1	.0	.0	3	.0	1.9
3	.0	.0	.0	.0	.0	.0	.4	.4	.4	.0	.0	3	.0	1.1
2	.0	.0	.0	.0	.0	.0	.4	.4	2.6	.0	.0	9	.0	3.3
1	.0	.0	.0	.0	.0	.0	1.1	.7	.0	.0	.0	5	.4	1.5
0	.0	.0	.0	.0	.0	.4	1.9	3.7	1.9	.0	.0	21	.0	7.8
-1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-2	.0	.0	.0	.0	.0	.4	1.1	5.9	.0	.4	.0	21	.0	7.8
-3	.0	.0	.0	.0	.0	.7	.4	.0	.0	.0	.0	3	.0	1.1
-4	.0	.0	.0	.0	.7	.7	5.2	1.1	.0	.0	.0	21	.0	7.8
-5	.0	.0	.0	.0	.4	2.2	1.9	1.1	.0	.0	.0	15	.0	5.6
-6	.0	.0	.0	.0	1.5	1.1	1.1	.0	.0	.0	.0	10	.0	3.7
-7/-8	.0	.0	.0	.7	5.2	3.7	1.1	.0	.4	.0	.0	30	.0	11.2
-9/-10	.0	.0	.0	1.9	3.7	5.2	.4	.0	.0	.0	.0	30	.0	11.2
-11/-13	.0	.0	1.5	4.1	7.1	3.0	.0	.4	.0	.0	.0	43	.0	16.0
-14/-16	.0	.4	1.1	3.3	3.7	.4	.7	.0	.0	.0	.0	26	.7	8.9
-17/-19	.0	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	6	.0	2.2
-20/-22	.4	.4	1.5	.0	.4	.0	.0	.0	.0	.0	.0	7	.0	2.6
-23/-25	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	3	4	13	29	61	48	43	40	24	2	2	269	3	266
PCT	1.1	1.5	4.8	10.8	22.7	17.8	16.0	14.9	8.9	.7	.7	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.5	.0	.0	.0	.0	1.1	<1	.6	.8	1.2	.0	.0	.0	2.6
1-2	.0	1.2	1.2	.0	.0	.0	2.4	1-2	.0	.9	.8	.0	.0	.0	1.7
3-4	.0	.0	3.3	.0	.0	.0	3.3	3-4	.0	1.2	2.7	.0	.0	.0	3.9
5-6	.0	.0	1.8	1.8	.0	.0	3.6	5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.5	.6	.0	.0	1.1	7	.0	.0	.8	.6	.0	.0	1.4
8-9	.0	.0	.0	.6	.0	.0	.6	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.6	.0	.0	1.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.6	.0	.0	.6	12	.0	.0	.6	.0	.0	.0	.6
13-16	.0	.0	.0	.6	.0	.0	.6	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.7	7.4	4.8	.0	.0	14.5	TOT PCT	.6	2.9	7.3	.6	.0	.0	11.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9	<1	.0	1.4	.8	.0	.0	.0	2.1
1-2	.0	.9	.5	.0	.0	.0	1.4	1-2	.0	1.2	4.1	.0	.0	.0	5.3
3-4	.0	.5	2.4	.0	.0	.0	2.9	3-4	.0	.2	.9	.6	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	1.8	.6	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.6	.0	.6	.0	1.2
8-9	.0	.0	.6	.0	.0	.0	.6	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.6	1.2	.0	.0	1.8
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.6	.0	.2	.8
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.6	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.8	.0	.8
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	3.5	.0	.0	.0	7.7	TOT PCT	.0	2.7	8.8	3.6	1.4	.2	16.7

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0016 WEST COAST KAMCHATKA
34.4N 155.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VEPSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.1	.5	.0	.0	.0		1.5	.0	.3	.0	.0	.0	.0		.3
1-2	.0	.6	1.4	.0	.0	.0		2.0	.0	.0	.6	.0	.0	.0		.6
3-4	.0	.6	2.7	.6	.0	.0		3.9	.0	.0	3.2	.0	.0	.0		3.2
5-6	.0	.6	1.2	.0	.0	.0		1.8	.0	.0	3.0	.2	.0	.0		3.2
7	.0	.0	.6	.6	.0	.0		1.2	.0	.6	.0	.0	.0	.0		.6
8-9	.0	.0	.0	.5	.6	.0		1.1	.0	.0	.0	.2	.0	.0		.2
10-11	.0	.0	.0	.0	1.2	.0		1.2	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.5		.5	.0	.0	.0	.6	.0	.0		.6
13-16	.0	.0	.0	.0	.0	.6		.6	.0	.0	.2	.0	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.5	.0		.5	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	2.9	6.4	1.7	2.3	1.1		14.2	.0	.9	7.0	.9	.0	.0		8.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.5	.6	.0	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.0	.6	.0	.0	.0		.6	.0	.0	.6	.0	.0	.0		.6	
3-4	.0	.0	1.7	.0	.0	.0		1.7	.0	.6	.6	.0	.0	.0		1.2	
5-6	.0	.0	1.2	1.1	.0	.0		2.3	.0	.0	1.2	1.8	.0	.0		3.0	
7	.0	.0	.0	.6	.0	.0		.6	.0	1.2	.6	.6	.0	.0		1.8	
8-9	.0	.0	.9	1.2	.0	.0		2.1	.0	.0	.9	.0	.0	.0		.9	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.6	.0	.0		.6	
12	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	1.7	1.2	.0	.0		2.9	.0	.0	.0	.6	.0	.0		.6	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.6	.0	.0		.6	
20-22	.0	.0	.0	.6	.6	.0		1.2	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	.5	6.7	4.7	1.8	.0		13.6	.0	1.8	3.9	3.6	.0	.0		9.4	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	7.3	3.0	.0	.0	.0	15.2	
1-2	.0	4.8	9.7	.0	.0	.0	14.5	
3-4	.0	3.0	17.6	1.2	.0	.0	21.8	
5-6	.0	.6	11.5	5.5	.0	.0	17.6	
7	.0	1.8	3.0	2.4	.6	.0	7.9	
8-9	.0	.0	2.4	2.4	.6	.0	5.5	
10-11	.0	.0	1.2	2.4	1.2	.0	4.8	
12	.0	.0	.6	1.8	.6	.6	3.6	
13-16	.0	.0	1.8	2.4	.0	.6	4.8	
17-19	.0	.0	.0	1.2	.0	.0	1.2	
20-22	.0	.0	.0	.6	.6	.0	1.2	
23-25	.0	.0	.0	.0	1.8	.0	1.8	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	17.6	50.9	20.0	5.5	1.2	100.0	165

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	1.8	2.6	3.1	3.5	.4	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
6-7	.0	.2	3.3	4.8	4.2	1.8	1.8	.9	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	7
8-9	.0	.2	.9	1.3	2.4	1.3	1.5	1.1	1.8	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	92	9
10-11	.0	.0	.0	.2	.2	.2	.0	.4	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	8	12
12-13	.0	.0	.0	.2	.2	.0	.0	.0	.2	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	6	15
>13	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	6	16
INDEX	2.0	.7	10.3	14.3	16.9	4.8	3.3	.7	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	244	6
TOTAL	9	13	78	109	136	39	34	14	20	5	3	4	2	0	0	0	0	0	0	496	7
PCT	2.0	2.9	17.1	23.9	27.6	8.6	7.5	3.1	4.4	1.1	.7	.9	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1957-1973

DECEMBER

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST BLWG SNOW	NO SIG WEA
N	2.3	.0	.0	.0	6.4	.0	.0	8.8	.0	.0	2.3	.0	.0	.0	88.9
NE	.0	.0	.0	.0	14.6	.0	.0	14.6	.0	.0	5.6	.0	.0	.0	79.9
E	.0	.0	.0	.0	17.0	.0	.0	17.0	.0	.0	11.4	.0	.0	.0	71.6
SE	.0	.0	.0	.0	8.6	.0	.0	8.6	8.6	.0	10.8	.0	1.1	.0	71.0
S	12.0	.0	.0	.0	16.0	.0	.0	28.0	16.0	.0	.0	.0	12.0	.0	44.0
SW	2.8	.0	.0	.0	58.3	.0	.0	61.1	.0	.0	11.1	.0	.0	.0	27.8
W	.0	.0	.0	.0	11.5	.0	.0	11.5	.0	.0	.0	.0	.0	.0	88.5
NW	.0	.0	.0	.0	47.2	.0	.0	47.2	15.1	.0	.0	.0	.0	.0	37.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	5.9	.0	.0	70.6
TOT PCT	1.1	.0	.0	.0	15.3	.0	.0	16.5	2.4	.0	7.4	.6	.6	.0	72.2
TOT OBS:	176														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.0	.0	.0	.0	16.9	.0	.0	16.9	2.8	.0	8.5	1.4	1.4	.0	69.0
06009	.0	.0	.0	.0	16.1	.0	.0	16.1	3.2	.0	.0	.0	.0	.0	80.6
12015	2.0	.0	.0	.0	12.0	.0	.0	14.0	4.0	.0	14.0	.0	.0	.0	68.0
18021	3.3	.0	.0	.0	13.3	.0	.0	16.7	.0	.0	3.3	.0	.0	.0	80.0
TOT PCT	1.1	.0	.0	.0	14.8	.0	.0	15.9	2.7	.0	7.7	.5	.5	.0	72.5
TOT OBS:	182														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

PERCENTAGE FREQUENCY OF WIND											HOUR (GMT)						
WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
	0-3	4-10	11-21	22-33	34-47	48+											
N	3.6	8.2	5.6	3.2	.0	.0	20.6	12.9	14.6	.0	27.2	.0	14.7	.0	37.5	.0	.0
NE	.4	8.0	8.8	1.0	.2	.0	18.4	13.3	29.2	.0	9.8	.0	12.5	.0	12.5	.0	.0
E	1.6	7.2	7.0	.6	.6	.0	12.0	10.2	9.4	.0	21.7	.0	7.4	.0	15.0	.0	.0
SE	.0	8.0	9.0	.0	1.6	.0	14.6	13.4	19.8	.0	6.5	.0	12.5	.0	15.0	.0	.0
S	.0	.6	2.2	.0	.0	.0	2.8	15.7	1.6	.0	3.3	.0	5.9	.0	.0	.0	.0
SW	.0	.8	4.4	1.8	.8	.0	7.8	21.1	13.0	.0	6.5	.0	5.9	.0	.0	.0	.0
W	.0	1.6	3.0	.6	.0	.0	5.2	16.2	1.6	.0	3.3	.0	14.7	.0	10.0	.0	.0
NW	.0	2.4	3.4	.8	1.6	.0	8.2	18.7	4.7	.0	4.3	.0	14.7	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.4						10.4	.0	6.3	.0	17.4	.0	11.8	.0	10.0	.0	.0
TOT OBS	20	46	43	10	6	0	125	12.7	48	0	23	0	34	0	20	0	0
TOT PCT	16.0	36.8	34.4	8.0	4.8	.0		100.0	100.0	.0	100.0	.0	100.0	.0	100.0	.0	.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	12	15	18	21
N	6.4	7.4	4.4	2.4	.0			20.6	12.9	14.6	27.2	14.7	37.5				
NE	3.4	8.6	6.2	.0	.2			18.4	13.3	29.2	9.8	12.5	12.5				
E	5.4	5.4	.6	.0	.6			12.0	10.2	9.4	21.7	7.4	15.0				
SE	2.6	9.6	.8	.8	.8			14.6	13.4	19.8	6.5	12.5	15.0				
S	.6	.6	1.6	.0	.0			2.8	15.7	1.6	3.3	5.9	.0				
SW	.0	2.6	3.4	1.8	.0			7.8	21.1	13.0	6.5	5.9	.0				
W	.8	1.6	2.2	.6	.0			5.2	16.2	1.6	3.3	14.7	.0				
NW	.8	2.6	3.2	1.6	.0			8.2	18.7	4.7	4.3	14.7	10.0				
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0				
CALM	10.4							10.4	.0	6.3	17.4	11.8	10.0				
TOT OBS	38	48	28	9	2	125		100.0		48	23	34	20				
TOT PCT	30.4	38.4	22.4	7.2	1.6			100.0		100.0	100.0	100.0	100.0				

DECEMBER

PERIOD: (PRIMARY) 1957-1973
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AREA 0016 WEST COAST KAMCHATKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-29	34-47				
0000	6.3	4.2	39.6	37.5	8.3	4.2	.0	13.1	100.0	48
0600	17.4	8.7	39.1	17.4	13.0	4.3	.0	11.1	100.0	23
1200	11.8	.0	32.4	47.1	5.9	2.9	.0	13.1	100.0	34
1800	10.0	15.0	35.0	25.0	5.0	10.0	.0	13.0	100.0	20
TOT	13	7	46	43	10	6	0	12.7		125
PCT	10.4	5.6	36.8	34.4	8.0	4.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	3.8	2.1	10.3	6.3		5.4
NE	6.1	4.0	6.1	5.2		5.0
E	2.7	2.1	3.6	4.8		3.3
SE	2.7	.2	5.2	4.2		3.3
S	.0	.0	1.3	1.3		7.0
SW	.0	.0	3.4	4.0		7.4
W	.0	.0	2.9	1.5		6.8
NW	1.5	.8	1.5	3.2		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.5	3.8	2.3		5.2
TOT OBS	24	14	50	43	131	5.5
TOT PCT	18.3	10.7	38.2	32.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.0	.0	.0	.8	4.2	4.8	1.9	.6	1.3	.0	9.0	
NE	1.5	.0	.0	1.0	1.0	2.9	1.9	1.0	1.0	.0	11.3	
E	1.9	.0	.0	.6	1.9	2.3	.0	.0	.0	.0	6.5	
SE	1.9	.0	.0	.0	.4	3.1	1.5	.0	.0	.0	5.3	
S	1.3	.0	.0	.0	.0	.6	.8	.0	.0	.0	.0	
SW	.2	.0	.0	.0	5.3	1.1	.0	.0	.0	.8	.0	
W	.0	.0	.0	.0	2.3	.6	.8	.0	.0	.8	.0	
NW	.0	.0	.0	.0	1.0	3.1	.0	.0	.0	.8	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.0	.0	.8	.8	.0	.0	.0	.0	6.1	
TOT OBS	11	0	0	3	22	25	9	2	3	3	53	131
TOT PCT	8.4	.0	.0	2.3	16.8	19.1	6.9	1.5	2.3	2.3	40.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

	CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500		2.2	2.9	3.6	4.4	4.4	4.4	4.4	4.4
= OR >5000		2.9	4.4	5.1	5.8	5.8	5.8	5.8	5.8
= OR >3500		5.8	11.7	12.4	13.1	13.1	13.1	13.1	13.1
= OR >2000		19.0	26.3	29.2	29.9	32.1	32.1	32.1	32.1
= OR >1000		24.8	36.5	43.1	43.8	47.4	48.2	48.9	48.9
= OR >600		26.3	38.0	44.5	45.3	48.9	50.4	51.1	51.1
= OR >300		26.3	38.0	44.5	45.3	48.9	50.4	51.1	51.1
= OR >150		26.3	38.0	44.5	45.3	48.9	50.4	51.1	51.1
= OR >0		26.3	38.0	44.5	46.0	50.4	52.6	54.0	59.1
TOTAL		36	52	61	63	69	72	74	81

TOTAL NUMBER OF OBS: 137

PCT FREQ NH <5/8: 40.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	6.1	1.8	14.7	5.5	8.6	6.7	14.1	12.3	23.3	6.7	163

DECEMBER

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1957-1973

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.4	.0	.0	1.1	.0	.0	.0	.0	1.7	
	NO PCP	.0	1.1	1.4	2.0	1.1	.0	.0	.0	.0	1.7	7.3	
	TOT %	.0	1.3	1.8	2.0	1.1	1.1	.0	.0	.0	1.7	9.0	
1/2<1	PCP	.0	.6	.6	.0	.6	.7	.4	1.1	.0	.0	4.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	TOT %	.0	.6	.6	.0	.6	.7	.4	1.1	.0	.6	4.6	
1<2	PCP	.0	.0	.0	.0	.4	.1	.0	.6	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.4	.7	.0	.6	.0	.0	1.7	
2<5	PCP	1.6	1.1	1.1	.0	.0	.6	.0	1.3	.0	.0	5.6	
	NO PCP	.6	.6	.0	.0	.0	.0	.0	.6	.0	.6	2.3	
	TOT %	2.1	1.7	1.1	.0	.0	.6	.0	1.8	.0	.6	7.9	
5<10	PCP	.6	.6	.0	.6	.0	.6	.0	.6	.0	.0	2.8	
	NO PCP	9.8	2.8	.8	3.0	.6	.6	1.7	.6	.0	1.7	17.5	
	TOT %	6.4	3.4	.8	3.5	.6	1.1	1.7	1.1	.0	1.7	20.3	
10+	PCP	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	1.7	
	NO PCP	19.7	12.9	8.1	7.1	.8	.8	1.6	2.8	.0	5.1	54.8	
	TOT %	19.7	13.4	8.1	7.6	.8	1.4	1.6	2.8	.0	5.1	56.5	
TOT OBS													177
TOT PCT		24.2	20.3	12.4	13.1	3.5	5.6	3.7	7.8	.0	9.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.2	.6	.8	.0	1.6	.0	.0	.0	.0	3.2	
	TOT %	.0	1.0	.6	.8	.0	1.6	.0	.0	.0	.0	4.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
	4-10	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	11-21	.0	.8	.0	.0	.8	.8	.0	.8	.0	.0	3.2	
	22+	.0	.0	.0	.0	.0	.2	.6	.8	.0	.0	1.6	
	TOT %	.0	.8	.8	.0	.8	1.0	.6	1.6	.0	.8	6.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.8	.0	.8	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
	4-10	.8	.8	1.6	.0	.0	.0	.8	.8	.0	.0	4.0	
	11-21	.6	1.6	.0	.0	.0	.8	.0	1.0	.0	.0	4.0	
	22+	.8	.0	.0	.0	.0	.0	.0	.8	.0	.0	1.6	
	TOT %	2.2	2.4	1.6	.0	.0	.8	.0	2.6	.0	.8	10.4	
5<10	0-3	1.4	.2	.0	.0	.0	.0	.0	.0	.0	2.4	4.0	
	4-10	4.4	2.0	.0	1.6	.0	.0	.8	.8	.0	.0	9.6	
	11-21	.8	1.6	.6	1.6	.8	.8	1.6	.0	.0	.0	8.0	
	22+	.8	.0	.0	.8	.0	.8	.0	.8	.0	.0	3.2	
	TOT %	7.4	4.0	.6	4.0	.8	1.6	2.4	1.6	.0	2.4	24.8	
10+	0-3	2.2	.2	1.6	.0	.0	.0	.0	.0	.0	6.4	10.4	
	4-10	3.0	4.4	4.8	6.4	.6	.8	.8	.0	.0	.0	20.8	
	11-21	4.2	4.6	1.4	3.4	.6	1.2	1.4	1.6	.0	.0	18.4	
	22+	1.6	1.0	.6	.0	.0	.0	.0	.0	.0	.0	3.2	
	TOT %	11.0	10.2	8.4	9.8	1.2	2.0	2.2	1.6	.0	6.4	52.8	
TOT OBS													129
TOT PCT		20.6	18.4	12.0	14.6	2.8	7.8	5.2	8.2	.0	10.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1957-1973

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.3	.0	.0	1.6	14.3	20.6	7.9	1.6	4.8	3.2	60.3	39.7	63
06009	.0	.0	.0	6.5	25.8	25.8	6.5	.0	.0	.0	64.5	35.5	31
12015	20.0	.0	.0	.0	13.3	16.7	10.0	.0	.0	3.3	63.3	36.7	30
18021	5.9	.0	.0	.0	11.8	.0	.0	5.9	.0	.0	23.5	76.5	17
TOT	11	0	0	3	23	26	10	2	3	3	81	60	141
PCT	7.8	.0	.0	2.1	16.3	18.4	7.1	1.4	2.1	2.1	57.4	42.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.1	4.2	1.4	8.3	11.1	63.9	72
06009	3.1	3.1	.0	12.5	18.8	62.5	32
12015	10.0	8.0	4.0	4.0	26.0	48.0	50
18021	6.7	.0	.0	6.7	36.7	50.0	30
TOT	16	8	3	14	38	105	184
PCT	8.7	4.3	1.6	7.6	20.7	57.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.3	12.7	23.8	38.1	38.1	63
06009	.0	6.5	22.6	45.2	32.3	31
12015	20.7	31.0	34.5	34.5	31.0	29
18021	7.1	7.1	14.3	14.3	71.4	14
TOT	11	20	34	50	53	137
PCT	8.0	14.6	24.8	36.5	38.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	.0	.0	.0	.0	.0	100.0	1	100.0
TOTAL	0	0	0	0	0	0	0	1	1	100.0
PCT	.0	.0	.0	.0	.0	.0	.0	100.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	39	38	32	21	9	1	1	18.9	69
06009	41	40	40	24	10	10	10	24.4	32
12015	32	31	30	25	7	1	1	21.9	50
18021	32	31	31	17	7	5	5	18.3	30
TOT	41	39	32	23	5	1	1	20.6	181

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	100.0	98	1
06009								
12015								
18021	0	0	0	0	0	1	98	1

DECEMBER

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1957-1973AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	TOT	W FOG	WD FOG
1	.0	.0	.0	.0	.0	.0	.0	1.7	1	.0	1.7
0	.0	.0	.0	.0	.0	.0	.0	2.6	2	.0	2.6
-1	.0	.0	.0	.0	.0	.0	.0	.9	1	.0	.9
-2	.0	.0	.0	.0	.0	.0	.0	1.7	2	.0	1.7
-3	.0	.0	.0	.0	.0	.0	.0	2.6	4	.9	2.6
-4	.0	.0	.0	.0	.0	.0	1.7	.0	2	.0	1.7
-5	.0	.0	.0	.0	.0	.0	3.4	4.3	9	.0	7.8
-6	.0	.0	.0	.0	.0	.0	2.6	1.7	5	.0	4.3
-7/-8	.0	.0	.0	.0	.0	2.6	4.3	.0	8	.0	6.9
-9/-10	.0	.0	.0	.0	.9	6.9	3.4	1.7	15	.9	12.1
-11/-13	.0	.0	.0	.9	2.6	3.4	2.6	.9	12	.9	9.5
-14/-16	.0	.0	1.7	.9	3.4	.0	2.6	.9	11	.0	9.5
-17/-19	.0	.0	8.6	.0	.9	.9	.0	.0	12	.0	10.3
-20/-22	.0	3.4	3.4	.9	.0	1.7	.0	.0	11	.9	8.6
-23/-25	1.7	5.2	.9	.0	.0	.0	.0	.0	9	3.4	4.3
-26/-30	4.3	.0	2.6	.0	.0	.0	.0	.0	8	.9	6.0
<-30	.9	.0	.9	.0	.0	.0	.0	.0	2	.0	1.7
TOTAL	8	10	21	3	9	18	27	20	116	9	107
PCT	6.9	8.6	18.1	2.6	7.8	15.3	23.3	17.2	100.0	7.8	92.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.0	.0	.0	.0	2.7	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	1.5	1.1	.0	.0	.0	2.7	.0	1.5	3.4	.0	.0	.0	4.9
3-4	.0	3.0	1.5	.0	.0	.0	4.5	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	1.1	1.5	.0	.0	2.7	.0	.0	3.0	1.5	.0	.0	4.5
7	.0	.0	.0	1.5	.0	.0	1.5	.0	1.5	4.5	.0	.4	.0	6.4
8-9	.0	.0	1.1	1.5	.0	.0	2.7	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	1.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	4.9	6.1	.0	.0	18.2	.0	4.9	14.4	1.5	.4	.0	21.2

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	4.9	.0	.0	.0	.0	4.9
1-2	.0	5.3	1.1	.0	.0	.0	6.4	.0	2.3	1.9	.0	.0	.0	4.2
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	2.7	.0	1.1	.0	10.2	.0	7.2	3.4	.0	1.5	.0	12.1

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.4	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.7	.0	.0	.0	2.7	.0	1.5	6.8	1.9	1.5	.0	11.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	1.5	.0	.0	.0	4.5	.0	.0	1.5	.0	.0	.0	1.5	.0
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	3.0	1.5	.0	.0	.0	4.5	.0
5-6	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	1.9	.0	.0	.0	1.9	.0
7	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	1.5	.0	.0	.0	1.5	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	5.7	1.1	.0	.0	9.8	.0	3.0	6.4	1.5	1.5	.0	12.5	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	12.1	.0	.0	.0	.0	13.6	
1-2	.0	13.6	13.6	.0	.0	.0	27.2	
3-4	.0	6.1	13.6	.0	.0	.0	19.7	
5-6	.0	.0	7.6	4.5	.0	.0	12.1	
7	.0	1.5	9.1	1.5	1.5	.0	13.6	
8-9	.0	.0	1.5	3.0	.0	.0	4.5	
10-11	.0	.0	.0	3.0	1.5	.0	4.5	
12	.0	.0	1.5	.0	.0	.0	1.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	1.5	.0	1.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.5	.0	1.5	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	33.3	47.0	12.1	6.1	.0	100.0	66

PERIOD: (OVER-ALL) 1957-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	5.0	5.6	3.0	3.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
6-7	.0	.6	3.1	2.5	3.8	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
8-9	.0	.0	1.3	1.9	1.3	1.9	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
10-11	.0	.0	.6	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	15
>13	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	7.5	4.4	24.4	6.3	5.0	3.8	2.5	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	87	4
TOTAL	16	16	36	26	21	10	11	0	2	1	0	0	1	0	0	0	0	0	0	160	5
PCT	10.0	10.0	35.0	16.3	13.1	6.3	6.9	.0	1.3	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

TABLE 1

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.3E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	2.9	.8	1.2	.0	7.4	.1	.0	11.5	1.4	.2	9.5	.3	.2	*	76.9	
NE	6.4	.2	1.5	.1	7.1	.1	.1	15.3	1.8	.0	8.3	.5	.4	.0	73.7	
E	10.2	.1	2.3	.1	9.3	.0	.0	21.6	2.0	.1	7.7	.2	.1	.0	68.3	
SE	12.1	.1	3.1	.1	9.3	.0	.0	24.8	3.4	.0	11.0	.2	.5	.0	60.2	
S	11.5	.1	3.7	.1	12.6	.1	.1	27.9	4.0	.1	12.6	.3	1.7	.0	53.6	
SW	6.2	.1	2.0	.2	17.7	.2	.2	26.3	3.0	.2	13.0	.1	.9	.0	57.1	
W	3.5	.4	1.5	.0	16.1	.2	.3	21.4	4.7	.0	9.3	.3	.2	.0	84.0	
NW	2.7	.1	.9	.1	17.0	.2	.3	21.0	4.5	.1	10.6	.3	.1	.0	63.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4	.1	1.7	.0	3.9	.1	.0	8.1	1.6	.0	16.3	.7	.7	.0	72.7	
TOT PCT	6.3	.1	2.0	.1	10.1	.1	.1	18.6	2.8	.1	11.6	.3	.4	*	66.1	
TOT OBS: 19523																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST SNOW	NO SIG WEA
00003	5.0	.1	1.6	.1	10.1	.1	.1	16.8	2.8	.1	12.6	.4	.4	*	66.9
06009	6.6	.1	2.0	.1	9.0	.1	.0	17.6	2.8	.0	9.0	.2	.3	.0	70.1
12013	7.3	.1	2.2	*	9.9	.1	.1	19.6	3.2	.1	10.6	.2	.5	*	65.6
18021	7.2	.1	2.7	.1	11.4	.1	.2	21.6	2.4	.2	12.7	.4	.3	*	62.6
TOT PCT	6.3	.1	2.0	.1	10.0	.1	.1	18.6	2.8	.1	11.6	.3	.4	*	66.3
TOT OBS: 20153															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.9	8.4	7.2	2.2	.2	*		20.0	12.3	14.0	13.3	23.2	21.7	20.2	17.8	20.4	22.8
NE	.8	4.7	3.1	.5	.1	.0		9.1	9.7	10.0	3.5	6.3	4.5	10.0	8.5	9.3	4.1
E	.8	3.9	1.5	.2	.1	*		6.5	8.6	6.2	3.0	6.1	1.2	6.6	6.0	8.4	4.1
SE	.7	4.6	3.9	1.1	.4	*		10.3	12.5	11.3	5.2	7.9	6.2	9.6	7.7	11.2	10.1
S	1.3	6.2	6.4	2.5	.5	.1		16.9	14.3	15.2	15.8	15.4	14.0	14.6	17.1	17.0	17.4
SW	1.0	3.7	2.9	1.0	.3	*		8.9	13.1	8.7	11.3	9.6	8.6	8.4	7.3	8.5	8.2
W	.9	3.2	2.8	1.1	.2	*		8.2	12.7	7.6	7.6	8.6	8.9	8.8	9.0	6.9	4.9
NW	1.3	5.6	4.5	1.4	.4	.0		13.2	12.9	10.9	22.5	16.3	14.8	14.3	8.6	11.4	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8						20880	6.8	.0	9.1	1.1	6.7	3.4	7.3	1.4	6.9	2.8
TOT OBS									11.5	4790	1980	3076	1707	3184	1693	2926	1584
TOT PCT	15.5	40.3	31.9	10.0	2.2	.1		100.0		100.0	83.3	100.0	83.3	100.0	83.3	100.0	83.3

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40	41+	48+				00	03	09	15
N	5.9	8.8	4.4	.8	.1			20.0	12.3	18.1	22.8	20.0	20.7
NE	3.2	4.1	1.7	.1	.1			9.1	9.7	9.7	6.4	10.2	9.1
E	2.9	3.0	.5	.1	.1			6.5	8.6	6.0	6.0	6.7	8.1
SE	2.7	4.9	1.9	.7	.1			10.3	12.5	11.1	8.0	9.8	11.5
S	4.1	7.1	4.5	1.2	.1			16.9	14.3	18.3	13.7	15.3	17.6
SW	2.8	3.6	1.9	.5	.2			8.9	13.1	9.3	9.5	8.6	8.3
W	2.6	3.0	2.0	.6	.1			8.2	12.7	8.1	8.8	8.9	7.0
NW	4.1	5.5	2.6	.9	.1			13.2	12.9	11.8	16.4	13.9	11.5
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	6.8						20880	6.8	.0	7.6	6.3	6.5	6.2
TOT OBS									11.5	6710	4783	4877	4310
TOT PCT	35.1	39.9	19.4	4.9	.7			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	7.6	8.3	40.9	31.5	9.4	2.1	.1	11.3	100.0	6710
06009	6.3	8.1	39.7	32.5	11.0	2.1	.3	11.8	100.0	4783
12015	6.5	8.9	40.7	32.1	9.5	2.3	.1	11.5	100.0	4877
18021	6.2	10.2	39.0	31.6	10.5	2.5	.1	11.6	100.0	4510
TOT								11.5		20880
PCT	6.8	8.7	40.3	31.9	10.0	2.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	2.2	5.2	7.9		5.3
NE	2.3	1.1	2.4	3.5		3.6
E	1.1	.7	1.6	3.2		6.0
SE	1.2	.7	2.4	5.9		6.5
S	1.0	.6	3.1	11.6		6.9
SW	.6	.4	2.2	5.0		6.8
W	.6	.5	2.9	4.2		6.5
NW	1.9	1.1	3.7	6.2		6.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.9	2.0	3.3		5.4
TOT OBS					13106	6.0
TOT PCT	15.5	8.3	25.5	50.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT+NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.5	.1	.3	1.0	2.9	3.3	1.0	.3	.5	.2	9.0	
NE	.6	*	*	.5	1.0	1.6	.7	.2	.3	.1	4.4	
E	.6	*	.1	.3	1.1	1.3	.3	.1	.2	.1	2.5	
SE	1.2	*	.3	.7	1.7	2.0	.7	.1	.2	.1	3.0	
S	3.0	.1	.6	1.7	3.2	3.0	1.3	.3	.3	.1	2.7	
SW	.9	.1	.2	.7	2.1	1.7	.5	.2	.1	.1	1.6	
W	.7	*	.2	.7	2.1	1.7	.5	.2	.1	.1	1.9	
NW	1.4	.1	.2	.9	2.6	2.4	.7	.2	.3	.1	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	*	.1	.3	1.0	1.1	.4	.2	.2	.1	3.7	
TOT OBS												13106
TOT PCT	11.0	.5	2.1	6.8	17.6	18.2	6.1	1.9	2.2	.9	32.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >6500	1.8	2.5	2.8	3.1	3.1	3.1	3.1	3.1
= OR >5000	2.5	3.8	4.6	4.9	5.0	5.0	5.0	5.0
= OR >3500	5.1	9.0	10.4	10.8	11.0	11.1	11.1	11.1
= OR >2000	14.8	23.6	27.2	28.3	29.0	29.2	29.4	29.4
= OR >1000	19.3	33.9	41.3	43.7	45.6	46.4	47.1	47.1
= OR >600	20.4	36.8	46.1	49.4	51.8	52.9	53.8	53.8
= OR >300	20.5	37.4	47.4	51.0	53.6	54.9	55.8	55.8
= OR >150	20.5	37.5	47.6	51.3	54.0	55.3	56.3	56.3
= OR >0	20.6	38.0	49.0	53.8	57.6	61.3	66.4	67.2

TOTAL NUMBER OF OBS: 13284

PCT FREQ NH <5/8: 32.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (FIGHTHS)

C	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
10.1	3.8	7.3	4.6	4.8	4.9	8.1	7.8	38.4	10.1	14674

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.3	.2	.5	1.0	.4	.4	.5	.0	.1	3.7	
	NO PCP	1.3	.3	.3	.7	2.2	.8	.5	1.1	.0	.9	8.1	
	TOT %	1.7	.6	.5	1.2	3.1	1.2	.9	1.6	.0	.9	11.8	
1/2<1	PCP	.3	.1	.2	.5	.7	.3	.4	.4	.0	.1	3.1	
	NO PCP	.2	.1	.1	.1	.2	.1	.1	.2	.0	.1	1.2	
	TOT %	.5	.2	.3	.6	1.0	.4	.5	.6	.0	.2	4.3	
1<2	PCP	.5	.3	.3	.4	1.0	.4	.4	.6	.0	.1	4.0	
	NO PCP	.2	.1	*	.1	.3	.2	.1	.2	.0	*	1.2	
	TOT %	.7	.3	.3	.5	1.3	.5	.5	.8	.0	.1	5.1	
2<5	PCP	.6	.4	.4	.6	1.3	.6	.4	.6	.0	.2	5.2	
	NO PCP	1.2	.5	.4	.7	1.3	.7	.7	.9	.0	.6	7.1	
	TOT %	1.8	1.0	.8	1.3	2.6	1.4	1.1	1.5	.0	.8	12.3	
5<10	PCP	.4	.2	.2	.4	.6	.2	.2	.3	.0	.1	2.7	
	NO PCP	5.0	1.9	1.2	2.2	3.6	2.1	2.1	3.3	.0	1.4	22.8	
	TOT %	5.4	2.2	1.4	2.6	4.1	2.3	2.3	3.6	.0	1.6	25.5	
10+	PCP	.1	.1	*	.1	.2	.1	*	.1	.0	*	.7	
	NO PCP	10.2	4.9	3.1	4.0	4.7	2.3	2.8	4.7	.0	3.6	40.4	
	TOT %	10.3	4.9	3.1	4.1	4.9	2.4	2.9	4.8	.0	3.6	41.1	
TOT OBS													19382
TOT PCT													20.3 9.2 6.4 10.3 17.1 8.9 8.1 13.0 .0 7.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.1	.1	.2	.4	.4	.3	.4	.0	.7	2.8	
	4-10	1.1	.4	.3	.6	1.5	.8	.5	.9	.0		6.0	
	11-21	.5	.1	.1	.3	1.0	.4	.2	.5	.0		3.1	
	22+	.1	.1	.1	.2	.6	.3	.2	.2	.0		1.7	
	TOT %	2.0	.6	.5	1.3	3.5	1.8	1.1	2.0	.0	.7	13.6	
1/2<1	0-3	.1	*	*	*	.1	*	*	*	.0	.2	.5	
	4-10	.2	.1	.3	.2	.3	.1	.1	.2	.0		1.5	
	11-21	.2	.1	.1	.2	.4	.2	.1	.3	.0		1.6	
	22+	.1	*	*	.2	.2	.1	.2	.1	.0		.9	
	TOT %	.5	.2	.4	.6	1.0	.5	.5	.6	.0	.2	4.4	
1<2	0-3	.1	*	*	*	.1	.1	*	.1	.0	.1	.6	
	4-10	.3	.2	.2	.2	.3	.2	.1	.4	.0		1.8	
	11-21	.3	.1	.1	.2	.6	.3	.3	.3	.0		2.1	
	22+	.1	*	*	.2	.4	.1	.1	.2	.0		1.0	
	TOT %	.8	.3	.3	.5	1.3	.6	.5	1.0	.0	.1	5.5	
2<5	0-3	.2	.1	.1	.1	.2	.1	.1	.2	.0	.8	1.9	
	4-10	.8	.6	.5	.5	.8	.6	.4	.7	.0		4.8	
	11-21	.7	.4	.2	.5	1.2	.5	.4	.7	.0		4.6	
	22+	.3	*	*	.3	.7	.3	.3	.3	.0		2.3	
	TOT %	2.1	1.1	.8	1.3	2.8	1.5	1.2	1.9	.0	.8	13.6	
5<10	0-3	.5	.2	.1	.1	.3	.1	.2	.2	.0	1.5	3.3	
	4-10	2.1	1.2	.7	1.1	1.3	.9	.8	1.4	.0		9.5	
	11-21	1.9	.7	.4	1.0	1.5	.8	.8	1.2	.0		8.3	
	22+	.7	.1	.1	.3	.7	.4	.4	.7	.0		3.3	
	TOT %	5.2	2.2	1.3	2.5	3.8	2.3	2.2	3.4	.0	1.5	24.3	
10+	0-3	.8	.4	.4	.3	.3	.3	.3	.4	.0	3.5	6.5	
	4-10	4.0	2.3	1.9	2.1	2.1	1.2	1.2	2.1	.0		16.8	
	11-21	3.6	1.7	.7	1.4	1.6	.7	1.0	1.5	.0		12.2	
	22+	1.0	.3	.1	.4	.5	.1	.2	.3	.0		3.0	
	TOT %	9.3	4.7	3.1	4.2	4.5	2.3	2.7	4.3	.0	3.5	38.6	
TOT OBS													20289
TOT PCT													20.0 9.1 6.4 10.4 16.9 8.9 8.3 13.3 .0 6.8 100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	8.8	.5	2.3	6.3	17.1	21.6	6.5	1.8	3.0	1.2	69.0	31.0	5122
06009	7.3	.4	2.0	7.7	18.9	19.1	5.8	2.0	1.4	.5	65.2	34.8	3210
12015	14.6	.1	1.9	5.8	15.3	13.1	5.9	1.8	1.5	.9	60.9	39.1	2833
18021	15.3	.7	1.8	6.9	18.3	13.5	5.6	2.1	2.0	.8	66.9	33.1	2574
TOT PCT	10.9	.4	2.1	6.7	17.4	18.0	6.0	1.9	2.2	.9	66.4	33.6	13739 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	12.6	4.3	5.0	11.8	20.7	45.7	7246
06009	12.5	3.6	4.7	12.9	24.0	42.3	4997
12015	14.8	4.7	5.9	14.4	27.3	33.0	5057
18021	15.5	4.2	6.8	15.9	27.1	30.4	4656
TOT PCT	13.8	4.2	5.8	13.3	24.0	39.2	21956 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	8.9	16.6	33.0	38.7	28.3	4998
06009	7.5	14.3	32.9	35.0	32.1	3123
12015	15.1	22.8	40.7	26.3	33.0	2688
18021	15.3	22.5	41.2	28.6	30.2	2475
TOT PCT	11.0	18.5	36.1	33.9	30.1	13284 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	.0	*	*
65/69	.0	.0	.0	.0	.0	.0	.0	.0	*	*
60/64	.0	.0	.0	.0	.0	.1	.2	.3	.5	.5
55/59	.0	.0	.0	.1	.1	.5	1.5	1.1	3.3	3.3
50/54	.0	.0	.0	.0	.1	1.2	4.8	8.0	14.1	14.1
45/49	.0	.0	.0	.0	.6	1.1	3.3	8.3	13.4	13.4
40/44	.0	.0	.0	.0	.2	1.4	4.5	7.0	13.1	13.1
35/39	.0	.0	.1	.1	.1	1.1	3.5	6.0	10.9	10.9
30/34	.0	.0	.0	.5	.7	1.3	3.9	5.6	12.0	12.0
25/29	.0	.2	.4	.6	.9	1.5	1.6	12.2	17.3	17.3
20/24	.0	.3	.3	.4	.7	.4	1.5	4.1	7.5	7.5
15/19	.0	.1	.4	.2	.4	.9	1.5	2.1	5.6	5.6
10/14	.0	.0	.0	.0	.0	.0	.9	.6	1.5	1.5
5/9	.0	.0	.0	.0	.0	.0	.1	.6	.7	.7
TOTAL PCT	.0	.5	1.2	1.9	3.7	9.3	27.4	56.0	3742	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
55/59	.7	.2	.1	.0	.6	.3	.7	.7	.0	.3
50/54	2.6	.4	.3	.7	3.7	2.1	1.5	2.2	.0	.6
45/49	1.7	.4	.4	1.9	2.8	1.3	2.2	2.3	.0	.4
40/44	1.6	1.0	1.4	2.1	3.0	1.6	.9	1.1	.0	.3
35/39	1.9	.9	.8	1.8	2.1	.8	1.1	1.0	.0	.6
30/34	2.5	1.1	.6	1.4	2.3	1.4	1.2	1.5	.0	.1
25/29	1.5	1.1	.7	10.1	1.1	.7	.7	1.0	.0	.5
20/24	1.6	.8	.7	.8	.8	.3	1.1	1.2	.0	.2
15/19	2.1	.3	.2	.3	.5	.5	.6	1.0	.0	.1
10/14	.6	.0	.0	.0	.0	.1	.4	.4	.0	.0
5/9	.1	.1	.2	.0	.0	.0	.3	.0	.0	.0
TOTAL	17.0	6.3	5.4	19.2	17.0	9.0	10.3	12.5	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	51	46	36	24	19	-13	41.1	7218
06009	73	52	47	37	28	22	-4	43.6	4976
12015	74	47	43	35	23	21	-5	40.7	5106
18021	70	47	43	34	24	19	-4	41.1	4710
TOT	76	50	45	35	23	20	-13	41.6	22010

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.1	5.2	11.5	29.1	49.1	88	970		
06009	.0	2.8	4.7	10.9	27.4	45.8	89	1006		
12015	.0	4.2	2.5	6.1	26.9	51.9	91	931		
18021	.0	2.8	2.9	8.0	24.4	53.5	91	849		
TOT	0	64	90	280	1071	2271	90	3776		

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

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AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	12	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	22	*	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	21	*	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	*	.1	.1	.0	89	*	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.2	.2	.2	.2	*	.0	.0	274	.2	1.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	.2	.3	.2	.2	*	.0	.0	356	.2	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.6	.5	.3	.4	.3	.2	*	.0	.0	516	.3	2.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.1	.1	.1	.1	*	.0	.0	.0	180	.1	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.8	.5	.7	.8	.4	.1	*	.0	.0	879	.5	3.8
4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.6	.8	1.1	.8	.4	.1	*	.0	.0	1129	.8	4.6
3	.0	.0	.0	.0	.0	.0	.0	.5	.5	.3	.1	.4	.6	.3	.2	*	.0	.0	.0	487	.3	2.6
2	.0	.0	.0	.0	.0	.0	.0	.9	1.2	1.0	1.0	1.5	1.6	1.8	.3	.1	.0	.0	.0	1970	1.8	7.6
1	.0	.0	.0	.0	.0	.0	.0	1.4	.8	.3	.3	.8	.7	.4	.1	.0	.0	.0	.0	771	.5	4.3
0	.0	.0	.0	.0	.0	.0	.1	2.3	1.3	1.1	1.0	2.6	2.3	1.2	.1	*	.0	.0	.0	2207	2.1	9.8
-1	.0	.0	.0	.0	.0	.0	.7	1.2	.4	.2	.4	.7	.5	.4	*	.0	.0	.0	.0	706	.6	3.9
-2	.0	.0	.0	.0	.0	.0	1.2	.9	.6	.9	.8	1.4	.8	.4	*	.0	.0	.0	.0	1131	.9	6.2
-3	.0	.0	.0	.0	.0	.0	1.7	.5	.1	.3	.4	.5	.4	.1	.0	.0	.0	.0	.0	470	.4	3.6
-4	.0	.0	.0	.0	.0	*	1.5	.5	.7	.5	.5	.4	.3	.1	*	.0	.0	.0	.0	522	.4	4.1
-5	.0	.0	.0	.0	.0	.6	1.4	.9	.3	.7	.3	.3	.1	*	.0	.0	.0	.0	.0	419	.3	4.3
-6	.0	.0	.0	.0	.0	.8	.8	.4	.3	.3	.1	*	*	.0	.0	.0	.0	.0	.0	188	.1	2.6
-7/-8	.0	.0	.0	.0	.1	1.9	1.3	.4	.4	.3	.2	*	.1	*	.0	.0	.0	.0	.0	312	.2	4.5
-9/-10	.0	.0	.0	.0	1.2	1.5	.9	.7	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	237	.2	4.7
-11/-13	.0	.0	.0	.4	1.9	1.1	.9	.4	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	262	.1	5.1
-14/-16	.0	.0	.2	1.4	.8	.4	.5	.1	.1	*	.1	.0	*	.0	.0	.0	.0	.0	.0	180	.1	3.5
-17/-19	.0	.0	1.7	.6	.2	.1	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	135	.1	2.7
-20/-22	.0	.6	1.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	.1	2.3
-23/-25	.2	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	.3	1.2
-26/-30	.9	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	.2	1.2
<-30	.4	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.1	.5
TOTAL																				13751		
PCT	1.4	1.8	3.7	7.7	4.5	6.7	11.2	11.0	8.5	8.2	7.9	11.3	10.2	7.2	2.4	1.0	.1	*	*	100.0	10.8	89.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	4.5	.6	.0	.0	.0	5.8	<1	.4	3.3	.4	.0	.0	.0	4.1
1-2	.1	2.7	.2	.0	.0	.0	5.0	1-2	*	.9	.9	.0	.0	.0	1.9
3-4	*	.9	2.3	.2	.0	.0	3.4	3-4	*	.2	.8	.1	.0	.0	1.1
5-6	*	.2	1.3	.7	.0	.0	2.2	5-6	.0	*	.5	.2	.0	.0	.7
7	.0	*	.4	.6	*	.0	1.1	7	.0	.1	.6	.2	*	.0	.9
8-9	.0	.0	.2	.3	*	*	.6	8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.1	.3	.1	.0	.4	10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	*	.1	.0	.0	.1	12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	*	*	.1	*	.0	.1	13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	*	.0	.0	*	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	*	*	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.3	7.2	2.1	.2	*	18.7	TOT PCT	.4	4.6	3.6	.5	*	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.7	.2	.0	.0	.0	3.1	<1	.3	2.7	.4	.0	.0	.0	3.4
1-2	*	1.0	.5	.0	.0	.0	1.6	1-2	.1	1.0	1.5	.0	.0	.0	2.5
3-4	*	.2	.8	.0	.0	.0	1.1	3-4	*	.2	.8	.3	.0	.0	1.4
5-6	.0	*	.1	*	.0	.0	.1	5-6	.0	*	.5	.3	*	.0	.9
7	.0	.0	*	*	.1	.0	.2	7	.0	.0	.2	.1	.1	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1	8-9	.0	.0	.2	.2	.1	.0	.4
10-11	.0	.0	*	.0	.0	.0	*	10-11	.0	.0	.1	.2	.2	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	*	*	13-16	.0	*	*	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.1	*	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	1.7	.1	.2	*	6.2	TOT PCT	.4	4.0	3.6	1.3	.5	*	9.9

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	2.7	.4	.0	.0	.0		3.5	.3	1.8	.1	.0	.0	.0		2.2
1-2	.1	1.9	2.2	.0	.0	.0		4.2	*	1.2	.9	.0	.0	.0		2.2
3-4	.0	.6	2.6	.5	.0	.0		3.7	.0	.3	1.4	.2	.0	.0		1.8
5-6	.0	.2	1.3	.6	.0	.0		2.1	.0	*	.7	.1	*	.0		.9
7	.0	.1	.7	1.0	*	.0		1.8	.0	.1	.3	.2	.0	.0		.5
8-9	.0	*	.2	.4	.1	.0		.8	.0	*	.1	.2	.0	.0		.3
10-11	.0	.0	.1	.2	.1	.0		.5	.0	.0	.1	.2	*	.0		.3
12	.0	.0	.0	.1	*	.0		.2	.0	.0	.0	.1	*	.0		.1
13-16	.0	*	*	.2	.1	.1		.3	.0	.0	*	.1	.0	.0		.1
17-19	.0	.0	.0	.1	*	.0		.1	.0	.0	*	*	.1	.0		.2
20-22	.0	.0	.0	*	.0	.0		.0	.0	.0	.0	*	.0	.0		*
23-25	.0	.0	*	.0	*	.0		.1	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	5.5	7.5	3.0	.5	.1		17.1	.3	3.4	3.6	.9	.2	.0		8.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.7	.2	.0	.0	.0		2.1	.2	3.0	.3	.0	.0	.0		3.5	
1-2	.1	1.5	.9	.0	.0	.0		2.5	.1	1.9	1.5	.0	.0	.0		3.5	
3-4	*	.3	1.1	.2	.0	.0		1.7	*	.9	1.5	.1	.0	.0		2.6	
5-6	*	.1	.7	.4	.0	.0		1.2	*	.2	1.1	.4	*	.0		1.7	
7	.0	*	.4	.2	.0	.0		.6	.0	.1	.5	.2	*	.0		.9	
8-9	.0	.0	.2	.2	*	.0		.5	.0	*	.3	.3	*	.0		.7	
10-11	.0	.0	.1	.2	*	.0		.3	.0	.0	.1	.2	.1	.0		.3	
12	.0	*	.0	*	.1	.0		.1	.0	.0	*	.1	.0	.0		.1	
13-16	.0	*	.1	.2	.1	.0		.4	.0	.0	.0	.1	*	.0		.1	
17-19	.0	.0	*	.0	*	.0		.1	.0	.0	.1	.1	*	.0		.2	
20-22	.0	.0	.0	.1	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	*	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		*	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.6	4.0	1.4	.3	.0		9.6	.3	6.2	5.3	1.5	.4	.0		13.7	92.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.8	22.4	2.6	.0	.0	.0	34.7	
1-2	.7	12.1	10.6	.0	.0	.0	23.4	
3-4	.1	3.6	11.4	1.6	.0	.0	16.8	
5-6	*	.8	6.1	2.6	.1	.0	9.8	
7	.0	.4	3.1	2.5	.3	.0	6.3	
8-9	.0	.7	1.5	1.6	.3	*	3.5	
10-11	.0	.0	.6	1.2	.5	.0	2.3	
12	.0	*	.2	.4	.1	.1	.8	
13-16	.0	.1	.2	.7	.3	.1	1.3	
17-19	.0	.0	.1	.2	.2	.0	.6	
20-22	.0	.0	.0	.1	.1	.0	.2	
23-25	.0	.0	*	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.1	*	.1	
33-40	.0	.0	.0	.0	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.6	39.6	36.5	10.9	2.3	.2	100.0	6518

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-15	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	11.5	7.9	4.3	2.3	.7	.4	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4068	3
6-7	*	1.6	3.7	3.5	2.8	1.2	.8	.3	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1308	5
8-9	.0	.6	1.0	1.1	1.1	.7	.8	.4	.7	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	624	8
10-11	.0	.6	.4	.2	.2	.1	.2	.1	.2	.1	*	*	.0	*	.0	.0	.0	.0	.0	197	7
12-13	.0	.0	.5	.2	.1	.1	.1	*	.1	.1	.1	*	.0	*	.0	.0	.0	.0	.0	126	7
>13	.0	.0	.0	.2	.1	.1	.1	.0	*	*	*	*	*	.0	.0	.0	.0	.0	.0	47	9
INDET	11.9	2.9	10.4	7.0	5.4	2.2	1.0	.1	.2	.1	*	*	.1	.0	.0	.0	.0	.0	.0	4037	3
TOTAL																				12607	4
PCT	18.1	17.2	24.0	16.4	12.1	5.1	3.4	1.0	1.7	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1870-1974

TABLE 20

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.3E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
63/64	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	11	.1
61/62	.0	.0	.0	.0	.0	.0	.9	.3	.1	.2	.0	.0	41	.3
59/60	.0	.0	.0	.0	.0	.0	1.1	1.2	.7	.6	.0	.0	75	.5
57/58	.0	.0	.0	.0	.0	.0	.9	3.4	1.8	1.3	.0	.0	129	.8
55/56	.0	.0	.0	.0	.0	.1	4.5	14.2	2.2	.4	.0	.0	476	3.0
53/54	.0	.0	.0	.0	.0	.3	9.5	22.3	17.5	.6	.0	.0	1000	6.3
51/52	.0	.0	.0	.0	.0	.7	15.1	24.2	19.8	2.2	.0	.0	1288	8.1
49/50	.0	.0	.0	.1	.4	3.8	14.4	13.4	21.5	3.7	1.5	.0	1179	7.4
47/48	.0	.0	.0	.1	.3	8.4	24.1	13.0	19.6	13.9	.4	.0	1681	10.6
45/46	.3	.3	.2	.1	.5	30.1	22.2	5.6	12.7	20.1	1.1	.0	2078	13.0
43/44	.3	.2	.2	.4	1.3	18.3	3.9	1.1	1.7	24.0	2.6	1.7	893	5.6
41/42	.3	.2	.5	.4	5.7	14.6	1.8	.3	1.8	9.7	17.9	7.7	775	4.9
39/40	.3	1.8	.4	3.3	9.4	11.4	.7	.4	.5	6.1	21.2	1.7	739	4.6
37/38	.6	.6	.7	1.6	15.9	6.2	.2	.4	.1	11.9	20.9	4.3	711	4.5
35/36	5.5	8.1	5.3	9.7	22.0	4.6	.1	.3	.0	5.2	19.0	10.3	967	6.1
33/34	11.3	4.2	8.0	17.6	27.5	1.4	.1	.2	.0	.0	8.8	16.2	1054	6.6
31/32	20.9	10.2	15.2	30.4	12.7	.3	.0	.0	.0	.0	5.9	20.5	959	6.0
29/30	54.1	70.5	62.3	33.9	3.9	.0	.0	.0	.0	.0	.7	29.9	1731	10.9
27/28	2.3	3.7	7.1	2.6	.3	.0	.0	.0	.0	.0	.0	7.7	139	.9
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	344	668	879	1136	2284	3007	3621	1994	1142	462	273	117	15927	100.0
MEAN	30.8	30.5	30.5	32.1	35.5	42.9	49.0	51.6	49.9	43.6	37.8	32.6	38.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1000	1007	1000	997	1000	1001	1000	994	1000	593
FEB	1005	1011	1005	1009	1005	1010	1006	1011	1006	1089
MAR	1005	1004	1006	999	1005	989	1005	996	1005	1482
APR	1011	1008	1011	1009	1011	1011	1010	1010	1011	1627
MAY	1013	1010	1011	1010	1011	1009	1011	1010	1011	2977
JUN	1014	1012	1014	1011	1013	1011	1013	1011	1012	3639
JUL	1010	1008	1010	1008	1010	1008	1009	1008	1009	4347
AUG	1010	1008	1010	1007	1010	1008	1010	1007	1009	2822
SEP	1014	1011	1013	1011	1014	1011	1014	1011	1013	1698
OCT	1010	1015	1009	1017	1009	1019	1009	1019	1010	938
NOV	1005		1005		1004		1005		1005	506
DEC	1004		1002		1004		1006		1005	175
ANN	1008	1009	1008	1008	1008	1008	1008	1008	1009	21893
OBS	5142	1998	3232	1753	3337	1731	3087	1618		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	969	975	981	993	1000	1008	1017	1025	1030
FEB	973	979	984	999	1007	1013	1023	1030	1035
MAR	963	977	986	999	1006	1012	1019	1026	1037
APR	981	984	991	1005	1012	1018	1025	1031	1039
MAY	973	989	996	1005	1011	1017	1025	1031	1043
JUN	988	996	1001	1008	1013	1018	1023	1025	1034
JUL	974	990	997	1005	1009	1013	1020	1025	1030
AUG	984	991	994	1004	1010	1014	1021	1026	1033
SEP	979	987	996	1006	1013	1019	1027	1040	1048
OCT	969	975	987	1004	1011	1017	1029	1032	1036
NOV	960	967	976	1000	1007	1013	1021	1027	1029
DEC	960	966	978	998	1007	1011	1028	1030	1032

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

MARCH

AREA 0017 TATAR STRAIT N
49.7N 141.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	13.8	.0	.0	13.8	3.8	.0	1.0	.0	.0	2.8	78.5
NE	3.9	.0	.0	.0	10.8	.0	.0	10.8	3.9	.0	2.5	.0	3.9	2.0	77.0
E	.0	.0	.0	.0	8.5	.0	.0	8.5	.0	.0	.0	.0	4.9	.0	86.6
SE	.0	.0	.0	.0	6.3	.0	.0	6.3	.0	.0	.0	.0	.0	.0	93.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	.0	.0	.0	92.2
SW	.0	.0	.0	.0	18.2	.0	.0	18.2	.0	.0	6.1	.0	.0	.0	75.8
W	.0	.0	5.6	4.2	22.2	.0	.0	31.9	.0	.0	4.2	.0	.0	.0	63.9
NW	.0	2.8	.0	.7	21.4	.0	.0	24.8	3.4	.0	3.4	.0	.0	.0	68.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.8	.4	.4	.4	13.3	.0	.0	14.5	2.4	.0	2.4	.0	1.2	1.2	78.2
TOT OBS:	248														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	.0	.0	.8	12.5	.0	.0	13.3	4.2	.0	3.3	.0	2.5	.8	75.8
06009	.0	1.7	.0	.0	3.4	.0	.0	5.2	.0	.0	3.4	.0	.0	1.7	89.7
12015	1.8	.0	.0	.0	19.3	.0	.0	19.3	1.8	.0	.0	.0	.0	1.8	77.2
18021	2.2	.0	2.2	.0	15.2	.0	.0	17.4	2.2	.0	2.2	.0	.0	.0	78.3
TOT PCT	.7	.4	.4	.4	12.5	.0	.0	13.5	2.5	.0	2.5	.0	1.1	1.1	79.4
TOT OBS:	281														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	10.4	8.8	7.7	3.0	.4		30.3	18.6		28.6	42.3	48.8	30.0	14.7	20.0	23.3	36.4
NE	.6	7.6	7.9	2.6	1.2	.0		19.8	15.2		27.8	11.5	16.9	22.5	22.3	10.0	25.0	4.5
E	1.4	5.2	1.3	.6	.0	.0		8.4	9.2		6.1	3.8	3.8	7.5	8.7	50.0	12.9	22.7
SE	.0	5.9	.6	.4	.0	.0		6.9	8.4		6.9	.0	2.5	20.0	9.8	.0	13.8	.0
S	.4	3.2	1.4	.0	.0	.0		5.0	8.7		7.2	3.8	5.0	10.0	3.3	.0	2.6	.0
SW	.0	6.0	.8	.0	.0	.0		6.8	7.8		4.7	7.7	5.0	10.0	13.0	.0	7.8	.0
W	.3	4.2	1.5	1.1	.0	.0		7.0	11.1		7.5	11.5	5.0	.0	3.8	.0	5.2	27.3
NW	1.3	6.5	4.8	1.3	.1	.0		13.9	11.7		12.8	15.4	13.1	.0	22.3	20.0	9.5	9.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		3.3	3.8	.0	.0	2.2	.0	.0	.0
TOT OBS	15	126	69	35	11	1	257		13.4		90	26	40	10	46	5	29	11
TOT PCT	5.8	49.0	26.8	13.6	4.3	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	5.3	9.6	8.2	6.0	1.2		30.3	18.6	31.7	45.0	15.2	26.9	
NE	2.6	10.8	3.6	2.4	.4		19.8	15.2	20.3	18.0	21.1	19.4	
E	3.7	3.1	1.6	.0	.0		8.4	9.2	5.6	4.5	12.7	15.6	
SE	2.7	3.8	.4	.0	.0		6.9	8.4	5.4	6.0	8.8	10.0	
S	1.6	3.0	.4	.0	.0		5.0	8.7	6.5	6.0	2.9	1.9	
SW	2.7	4.1	.0	.0	.0		6.8	7.8	5.4	6.0	11.8	5.6	
W	3.7	1.4	1.7	.3	.0		7.0	11.1	8.4	4.0	3.4	11.3	
NW	3.8	5.8	3.7	.6	.0		13.9	11.7	13.4	10.5	22.1	9.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	3.4	.0	2.0	.0	
TOT OBS	72	107	50	24	4	257		13.4	116	50	51	40	
TOT PCT	28.0	41.6	19.5	9.3	1.6		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.4	3.4	53.4	25.0	10.3	4.3	.0	11.9	100.0	116
06009	.0	4.0	40.0	30.0	22.0	4.0	.0	13.7	100.0	50
12015	2.0	2.0	52.9	31.4	9.8	2.0	.0	12.1	100.0	51
18021	.0	7.5	42.5	22.5	17.5	7.5	2.5	16.4	100.0	40
TOT	5	10	126	69	35	11	1	13.4		257
PCT	1.9	3.9	49.0	26.8	13.6	4.3	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.5	1.6	10.0	8.0		4.7
NE	6.4	.7	8.8	7.4		5.4
E	2.1	.4	3.9	1.3		4.9
SE	2.1	1.1	2.2	1.1		4.0
S	2.0	.0	1.4	1.1		4.3
SW	1.2	.0	.5	2.6		3.7
W	3.0	.9	.9	2.1		4.1
NW	4.2	.7	3.7	5.9		5.3
VAK	.0	.0	.0	.0		.0
CALM	1.1	.5	.0	.5		3.5
TOT OBS	62	11	60	57	190	4.9
TOT PCT	32.6	5.8	31.6	30.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.0	.0	.0	.0	2.5	5.4	2.1	.0	.0	.0	17.2	
NE	2.2	.0	.0	.0	.7	5.9	2.6	.0	.5	.5	10.8	
E	.0	.0	.0	.0	.0	2.6	1.1	.0	.0	.0	4.1	
SE	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.5	4.2	
S	.5	.0	.0	.0	.5	.4	.0	.0	.0	.5	2.5	
SW	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
W	1.7	.0	.0	.0	.0	.8	.0	.0	.0	.0	4.5	
NW	2.0	.0	.5	.1	1.6	3.2	1.1	.0	.0	.0	6.1	
VAK	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.6	
TOT OBS	20	0	1	2	11	35	16	0	1	3	101	190
TOT PCT	10.5	.0	.5	1.1	5.8	18.4	8.4	.0	.5	1.6	53.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>5000	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>3500	8.1	9.6	10.1	10.1	10.1	10.1	10.1	10.1
>2000	17.2	21.7	24.7	27.3	27.3	27.3	27.8	27.8
>1000	18.7	24.7	29.3	31.8	31.8	31.8	33.3	33.3
>600	19.2	25.8	30.3	32.8	32.8	32.8	34.3	34.3
>300	19.2	25.8	30.3	32.8	32.8	32.8	34.3	34.3
>150	19.2	25.8	30.3	32.8	32.8	32.8	34.3	34.3
>0	19.2	26.3	31.8	35.4	36.9	38.9	45.5	45.5
TOTAL	38	52	63	70	73	77	90	90

TOTAL NUMBER OF OBS: 198

PCT FREQ NH <5/8: 54.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
30.8	5.7	10.4	1.9	3.3	4.7	8.5	10.4	13.7	10.4	211

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.8	.0	.0	.0	.8	1.3	1.3	.0	.0	4.9	
	NO PCP	1.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	1.7	1.7	.0	.0	.0	.8	1.3	1.3	.0	.0	6.9	
1/2<1	PCP	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.8	
	TOT %	.0	.8	.0	.0	.4	.0	.0	.4	.0	.0	1.6	
1<2	PCP	1.3	.0	.0	.4	.0	.0	.3	.6	.0	.0	2.9	
	NO PCP	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.8	
	TOT %	1.3	.0	.4	.4	.0	.4	.3	.6	.0	.0	3.7	
2<5	PCP	.7	.2	.7	.0	.0	.4	.3	.9	.0	.0	3.3	
	NO PCP	1.2	.9	.3	.0	.7	.1	.3	.5	.0	.4	4.5	
	TOT %	1.9	1.1	1.0	.0	.7	.5	.6	1.4	.0	.4	7.8	
5<10	PCP	.8	.4	.0	.0	.0	.4	.4	.0	.0	.0	2.0	
	NO PCP	2.6	3.2	.4	.4	.4	.0	.3	1.3	.0	.4	9.0	
	TOT %	3.4	3.6	.4	.4	.4	.0	.7	1.7	.0	.4	11.0	
10+	PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	20.1	13.6	6.5	5.6	3.7	5.0	4.4	8.5	.0	1.2	68.6	
	TOT %	20.5	13.6	6.5	5.6	3.7	5.0	4.4	8.5	.0	1.2	69.0	
TOT OBS													245
TOT PCT		29.1	20.8	8.4	6.4	5.2	6.7	7.3	14.0	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.8	
	11-21	.4	.4	.0	.0	.0	.4	.9	1.1	.0	.0	3.2	
	22+	1.5	1.3	.0	.0	.0	.0	.0	.4	.0	.0	3.2	
	TOT %	1.9	1.7	.0	.0	.0	.8	1.3	1.5	.0	.0	7.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.8	.0	.0	.4	.0	.0	.4	.0	.0	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.8	.0	.0	.4	.3	.5	.0	.0	2.4	
	11-21	.3	.0	.0	.4	.0	.0	.0	.1	.0	.0	.8	
	22+	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	1.5	.0	.8	.4	.0	.4	.3	.6	.0	.0	4.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.3	.1	.0	.4	.8	
	4-10	.0	.4	.4	.0	.3	.5	.0	1.2	.0	.0	2.8	
	11-21	1.1	.6	.3	.0	.4	.0	.3	.1	.0	.0	2.8	
	22+	1.2	.1	.3	.4	.0	.0	.4	.0	.0	.0	2.4	
	TOT %	2.3	1.1	1.0	.4	.7	.5	1.0	1.4	.0	.4	8.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	1.4	1.0	.0	.4	.0	.0	.3	.9	.0	.0	4.0	
	11-21	1.1	1.3	.4	.0	.4	.0	.0	.4	.0	.0	3.6	
	22+	.8	1.2	.0	.0	.0	.0	.4	.8	.0	.0	3.2	
	TOT %	3.3	3.5	.4	.4	.4	.0	.7	2.1	.0	.4	11.3	
10+	0-3	.0	.6	1.4	.0	.4	.0	.0	1.2	.0	1.2	4.8	
	4-10	8.6	6.5	4.1	5.3	2.2	4.5	3.3	3.3	.0	.0	37.9	
	11-21	5.3	5.8	.6	.2	.6	.4	.3	3.2	.0	.0	16.5	
	22+	6.4	.5	.3	.0	.0	.0	.3	.2	.0	.0	7.7	
	TOT %	20.3	13.4	6.5	5.5	3.2	4.9	3.9	8.0	.0	1.2	66.9	
TOT OBS													246
TOT PCT		29.3	20.6	8.7	6.8	4.7	6.7	7.3	14.0	.0	2.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.8	.0	.0	1.9	7.8	21.4	8.7	.0	1.0	2.9	50.5	49.5	103
06009	10.3	.0	2.6	.0	2.6	23.1	7.7	.0	.0	.0	46.2	53.8	39
12015	23.5	.0	.0	.0	5.9	5.9	5.9	.0	.0	.0	41.2	58.8	34
18021	11.5	.0	.0	.0	.0	11.5	7.7	.0	.0	.0	30.8	69.2	26
TOT	22	0	1	2	11	36	16	0	1	3	92	110	202
PCT	10.9	.0	.5	1.0	5.4	17.8	7.9	.0	.5	1.5	45.5	54.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	5.7	.8	4.9	9.0	11.5	68.0	122
06009	7.0	1.8	.0	10.5	8.8	71.9	57
12015	10.5	1.8	3.5	1.8	22.8	59.6	57
18021	10.4	4.2	6.3	16.7	8.3	54.2	48
TOT	22	5	11	26	36	184	284
PCT	7.7	1.8	3.9	9.2	12.7	64.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.9	10.9	25.7	28.7	45.5	101
06009	10.8	10.8	13.5	29.7	56.8	37
12015	23.5	23.5	26.5	14.7	58.8	34
18021	11.5	11.5	23.1	15.4	61.5	26
TOT	22	26	46	49	103	198
PCT	11.1	13.1	23.2	24.7	52.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	1.0	.0	.0	1.0	2	1.9
30/34	.0	1.0	.0	8.7	2.9	4.9	1.9	.0	20	19.4
25/29	.0	.0	2.9	9.7	19.4	19.4	8.7	.0	62	60.2
20/24	.0	.0	1.0	1.0	2.9	3.9	3.9	.0	13	12.6
15/19	.0	.0	.0	.0	.0	2.9	1.0	.0	4	3.9
10/14	.0	.0	.0	.0	.0	1.0	1.0	.0	2	1.9
TOTAL	0	1	4	20	27	33	17	1	103	100.0
PCT	.0	1.0	3.9	19.4	26.2	32.0	16.5	1.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.7	.0	.0	.0	.0	1.0	.0	.2	.0	.0
30/34	4.6	4.4	1.5	1.0	1.0	.0	4.6	2.4	.0	.0
25/29	25.0	13.1	6.3	8.7	.0	2.9	1.7	1.5	.0	1.0
20/24	1.9	4.9	4.9	1.0	.0	.0	.0	.0	.0	.0
15/19	.0	1.0	.0	1.0	.0	.0	.0	1.9	.0	.0
10/14	.7	.2	.0	.0	.0	.0	.0	1.0	.0	.0
TOTAL	33.0	23.5	12.6	11.7	1.0	3.9	6.3	7.0	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	44	37	36	26	7	5	4	24.1	121
06009	50	49	36	27	13	7	7	26.2	62
12015	34	33	33	26	10	5	5	23.5	57
18021	45	44	39	23	12	8	8	22.2	48
TOT	50	44	36	26	9	5	4	24.1	288

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	21.6	21.6	35.3	19.6	2.0	70	51		
06009	.0	43.5	26.1	17.4	13.0	.0	64	23		
12015	.0	37.5	31.3	18.8	12.5	.0	66	16		
18021	.0	5.9	35.3	47.1	11.8	.0	71	17		
TOT	0	28	28	33	17	1	68	107		

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

MARCH

AREA 0017 TATAR STRAIT II
49.7N 141.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	43 46	49 52	TOT	# FOG	WD FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	2	.0	.8
4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	2	.4	.4
3	.0	.0	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	.0	3	.0	1.2
2	.0	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	.4	.0	4	.0	1.6
1	.0	.0	.0	.0	.0	.0	.0	1.2	2.0	.0	.4	.0	.0	9	.0	3.6
0	.0	.0	.0	.0	.0	.0	.4	1.6	1.6	.0	.0	.0	.0	9	.4	3.2
-1	.0	.0	.0	.0	.0	.0	.8	4.4	.4	.0	.0	.0	.0	14	.4	5.2
-2	.0	.0	.0	.0	.0	.0	3.6	4.0	.8	.0	.0	.0	.0	21	.0	8.5
-3	.0	.0	.0	.0	.0	.0	5.6	3.2	.0	.0	.0	.0	.0	22	.0	8.9
-4	.0	.0	.0	.0	.0	.0	2.8	3.2	.4	.0	.0	.0	.0	16	.0	6.5
-5	.0	.0	.0	.0	.0	1.2	7.3	.0	.0	.4	.0	.0	.0	22	.4	8.5
-6	.0	.0	.0	.0	.0	1.2	3.6	.4	.0	.0	.0	.0	.0	13	.0	5.2
-7/-8	.0	.0	.0	.0	.0	.0	6.5	4.0	.0	.0	.0	.0	.0	26	.4	10.1
-9/-10	.0	.0	.0	.0	1.2	2.8	.8	.0	.0	.0	.0	.0	.0	12	.0	4.8
-11/-13	.0	.0	.0	.8	4.4	.8	.0	.0	.0	.0	.0	.0	.0	17	.0	6.9
-14/-16	.0	.0	.0	2.8	3.6	.8	.0	.0	.0	.0	.0	.0	.0	18	.0	7.3
-17/-19	.0	.0	2.4	4.8	2.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	9.3
-20/-22	.0	1.2	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	3.2
-23/-25	.4	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	2.4
TOTAL	1	7	10	23	33	47	18	4	1	1	1	1	1	248	5	243
PCT	.4	2.8	4.0	9.3	11.3	13.3	29.8	19.0	7.3	1.6	.4	.4	.4	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.3	1.0	.0	.0	.0	7.3	1.0	7.0	1.2	.0	.0	.0	9.2
1-2	.0	1.9	3.6	.0	.0	.0	5.6	.0	1.9	1.3	.0	.0	.0	3.4
3-4	.0	1.0	3.6	2.9	.0	.0	7.5	.0	1.9	1.2	.0	.0	.0	3.2
5-6	.0	.7	.7	1.0	.0	.0	2.4	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	4.9	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	4.9	1.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.0	9.0	13.6	4.6	.0	37.1	1.0	11.2	4.9	.0	.0	.0	17.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.5	.7	.0	.0	.0	8.3	.0	9.7	.0	.0	.0	.0	9.7
1-2	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.5	2.2	.0	.0	.0	9.7	.0	9.7	1.0	.0	.0	.0	10.7

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0017 TATAR STRAIT N
49.7N 141.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	4.9	
1-2	.0	2.9	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	4.9	
TOT PCT	.0	2.9	.0	.0	.0	.0	2.9	.0	4.9	.0	.0	.0	.0	4.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	4.6	.0	.0	.0	.0	5.3	.2	2.7	.0	.0	.0	.0	2.9	
1-2	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.2	.0	1.2	
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	4.6	.7	.7	.0	.0	6.8	.2	2.7	1.7	2.2	.2	.0	7.0	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.8	42.7	2.9	.0	.0	.0	51.5	
1-2	.0	6.8	7.8	.0	.0	.0	14.6	
3-4	.0	2.9	6.8	2.9	.0	.0	12.6	
5-6	.0	1.0	1.0	1.0	.0	.0	2.9	
7	.0	.0	.0	5.8	.0	.0	5.8	
8-9	.0	.0	.0	1.0	1.9	.0	2.9	
10-11	.0	.0	.0	5.8	1.0	.0	6.8	
12	.0	.0	.0	.0	1.9	.0	1.9	
13-16	.0	.0	1.0	.0	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	53.4	19.4	16.5	4.9	.0	100.0	103

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERCENT FREQUENCY OF WAVE HEIGHT (1/10) IN EXCEEDING PERIOD																					
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	10.4	11.2	1.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
6-7	.0	.0	.0	.8	.8	.0	3.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
8-9	.0	.0	.0	.0	.8	.8	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
INDET	38.4	10.4	7.2	2.4	2.4	.8	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	48	26	23	7	7	3	7	3	1	0	0	0	0	0	0	0	0	0	0	0	79
PCT	38.4	20.8	18.4	5.6	5.6	2.4	5.6	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125
																					100.0

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

APRIL

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.7	1.2	1.2	.0	9.5	.0	1.2	14.9	1.2	.0	8.2	.0	.0	.0	75.6
NE	5.5	.0	.0	.0	4.5	.0	.0	9.1	3.6	.0	7.3	.0	.0	.0	80.0
E	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	97.7
SE	4.8	.0	3.2	.0	.0	.0	.0	8.0	3.2	.0	4.8	.0	.0	.0	84.0
S	3.1	4.6	3.1	.0	2.0	.0	.0	11.7	1.8	.0	11.7	.8	.0	.0	74.0
SW	3.6	2.7	1.8	.0	7.2	.0	.0	15.2	2.2	.0	16.6	.4	.0	.0	65.5
W	.0	.0	.0	.0	5.8	.0	.0	5.8	.0	.0	2.9	.0	.0	.0	91.3
NW	8.7	.0	.0	.0	25.5	.0	.0	34.2	.0	.0	.7	.0	.0	.0	65.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	3.6	.0	.0	3.6	3.6	.0	17.9	.0	.0	.0	75.0
TOT PCT	3.4	1.7	1.5	.0	6.6	.0	.2	13.0	1.7	.0	9.1	.2	.0	.0	75.9
TOT OBS:	407														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.8	1.1	1.1	.0	10.2	.0	.0	14.1	.6	.0	9.0	.0	.0	.0	76.3
06009	3.7	.0	2.4	.0	3.7	.0	.0	9.8	3.7	.0	12.2	.0	.0	.0	74.4
12015	1.0	3.0	2.0	.0	6.0	.0	1.0	13.0	1.0	.0	4.0	.0	.0	.0	82.0
18021	6.7	2.7	.0	.0	6.7	.0	.0	16.0	4.0	.0	13.3	1.3	.0	.0	65.3
TOT PCT TOT OBS:	3.2 434	1.6	1.4	.0	7.4	.0	.2	13.4	1.8	.0	9.2	.2	.0	.0	75.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.2	5.7	9.0	4.6	1.1	.0		22.5	15.5	15.2	25.0	30.8	28.6	24.7	12.5	21.2	19.6	
NE	.6	2.8	3.4	.6	.0	.0		7.5	11.9	7.0	2.5	8.8	10.7	8.0	8.3	9.0	4.3	
E	.3	2.8	2.3	.2	.0	.0		5.8	10.0	6.3	5.0	1.7	.0	5.0	8.3	13.3	6.5	
SE	.5	4.7	1.6	.1	.3	.0		7.2	9.1	7.4	5.0	4.2	.0	6.7	20.8	4.5	19.6	
S	.3	7.0	6.8	5.8	.6	.0		20.5	16.6	22.1	21.3	27.9	16.1	14.3	8.3	19.9	21.7	
SW	.3	4.2	5.7	1.7	.5	.0		12.3	15.4	13.3	16.3	10.0	19.6	11.7	12.5	10.3	10.9	
W	1.0	2.5	2.6	.3	.2	.0		6.5	11.1	3.7	7.5	7.9	10.7	9.0	8.3	4.5	9.8	
NW	1.3	3.2	4.6	.7	.0	.0		9.8	11.9	11.1	17.5	3.8	7.1	8.7	20.8	12.2	7.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.8							7.8	.0	10.9	.0	5.0	7.1	12.0	.0	5.1	.0	
TOT OBS	53	122	134	52	10	0	371		12.8		128	20	60	14	75	12	39	23
TOT PCT	14.3	32.9	36.1	14.0	2.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	4.5	9.0	6.4	2.4	.3		22.5	15.5	19.1	30.4	23.0	20.6
NE	1.1	5.1	.9	.9	.0		7.5	11.9	6.4	9.1	8.0	7.3
E	1.8	3.8	.2	.0	.0		5.8	10.0	6.1	1.4	5.5	10.9
SE	3.3	3.3	.3	.3	.0		7.2	9.1	7.1	3.4	8.6	10.1
S	4.1	6.2	6.9	3.2	.0		20.5	16.6	22.0	25.7	13.5	20.6
SW	2.2	4.6	4.6	.6	.3		12.3	15.4	13.7	11.8	11.8	10.5
W	1.8	3.5	1.0	.2	.0		6.5	11.1	4.2	8.4	8.9	6.5
NW	2.9	3.9	3.0	.1	.0		9.8	11.9	12.0	4.4	10.3	10.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	9.5	5.4	10.3	3.2
TOT OBS	110	146	87	26	2	371		12.8	148	74	87	62
TOT PCT	29.6	39.4	23.5	7.0	.5		100.0		100.0	100.0	100.0	100.0

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APRIL

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	9.5	8.1	30.4	33.8	16.9	1.4	.0	12.6	100.0	148
06009	3.4	4.1	29.7	41.9	14.9	4.1	.0	13.9	100.0	74
12015	10.3	6.9	34.5	34.5	10.3	3.4	.0	12.1	100.0	87
18021	3.2	4.8	40.3	37.1	11.3	3.2	.0	13.2	100.0	62
TOT	29	24	122	134	52	10	0	12.8		371
PCT	7.8	6.5	32.9	36.1	14.0	2.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	6.3	1.8	4.4	8.2		4.9
NE	1.1	.7	2.5	2.9		3.8
E	.8	.9	.6	2.8		3.9
SE	1.7	.4	.9	2.5		3.0
S	7.8	3.1	4.7	9.7		4.7
SW	3.6	2.0	2.6	5.1		3.1
W	3.0	.2	1.1	1.1		3.5
NW	2.7	.0	2.1	4.6		3.6
VAR	.0	.0	.0	.0		.0
CALM	4.1	1.3	.3	2.2		3.4
TOT OBS	98	33	61	124	316	4.9
TOT PCT	31.0	10.4	19.3	39.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.1	.0	.0	.0	2.9	2.9	1.7	.3	.0	.6	10.2	
NE	.0	.0	.0	.0	1.1	.1	1.7	.3	.0	.0	4.0	
E	.0	.0	.0	.0	.6	.6	1.3	.0	.0	.0	2.7	
SE	.5	.0	.0	.3	.6	.9	.8	.3	.0	.0	2.1	
S	1.4	.0	.0	1.3	4.4	1.7	1.1	.0	1.6	.2	13.4	
SW	1.6	.0	.0	.9	2.0	.8	1.1	.0	.3	.1	6.5	
W	.0	.0	.0	.0	.6	.2	.6	.3	.0	.0	3.8	
NW	.5	.0	.0	.3	2.0	1.9	1.1	.0	.3	.1	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.0	.3	.6	.0	.0	.0	.3	5.7	
TOT OBS	22	0	0	9	46	31	30	4	7	4	163	316
TOT PCT	7.0	.0	.0	2.8	14.6	9.8	9.5	1.3	2.2	1.3	11.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

	CEILING (FEET)		VSBY (NM)		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0				
OR >6500	2.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3				
OR >5000	2.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5				
OR >3500	7.8	12.5	13.4	13.4	13.4	13.4	13.4	13.4				
OR >2000	11.9	19.7	22.4	22.4	23.3	23.3	23.6	23.6				
OR >1000	14.6	27.5	34.3	35.8	36.7	37.0	37.3	37.3				
OR >600	14.9	29.3	36.4	38.2	39.4	40.0	40.3	40.3				
OR >300	14.9	29.3	36.4	38.2	39.4	40.0	40.3	40.3				
OR >150	14.9	29.3	36.4	38.2	39.4	40.0	40.3	40.3				
OR >0	14.9	30.4	38.5	43.0	44.2	46.3	48.7	49.0				
TOTAL	50	102	129	144	148	155	163	164				

TOTAL NUMBER OF OBS: 335

PCT FREQ NH <5/8: 51.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	26.4	1.4	10.6	5.8	5.8	1.9	6.4	5.3	28.1	360

PERIOD: (PRIMARY) 1958-1974
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APRIL

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.0	.0	.0	.5	.2	.0	.1	.0	.0	1.5	
	NO PCP	1.2	.2	.0	.4	.6	.7	.0	.1	.0	.7	3.9	
	TOT %	1.8	.2	.0	.4	1.1	1.0	.0	.2	.0	.7	5.3	
1/2<1	PCP	.2	.0	.0	.0	.0	.2	.0	.7	.0	.0	1.2	
	NO PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.2	.3	.0	.7	.0	.0	1.5	
1<2	PCP	1.1	.1	.0	.0	.5	.2	.4	.9	.0	.2	3.4	
	NO PCP	.2	.0	.0	.0	.2	.3	.0	.0	.0	.0	.7	
	TOT %	1.3	.1	.0	.0	.7	.5	.4	.9	.0	.2	4.1	
2<5	PCP	.8	.5	.0	.5	.8	.9	.0	1.6	.0	.0	5.1	
	NO PCP	.2	.7	.2	.0	1.9	1.0	.4	.1	.0	.5	5.1	
	TOT %	1.0	1.3	.2	.5	2.7	1.9	.4	1.6	.0	.5	10.2	
5<10	PCP	.9	.0	.1	.1	1.0	.4	.0	.3	.0	.0	2.9	
	NO PCP	4.8	1.5	1.3	2.2	5.9	2.5	1.2	.7	.0	1.0	21.1	
	TOT %	5.7	1.5	1.5	2.3	7.0	3.0	1.2	1.0	.0	1.0	24.0	
10+	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	10.9	3.6	3.5	4.4	12.1	6.8	4.3	5.1	.0	4.4	54.7	
	TOT %	10.7	3.6	3.5	4.4	12.1	6.8	4.3	5.1	.0	4.4	55.0	
TOT OBS													
TOT PCT		20.8	6.7	5.2	7.6	23.7	13.5	6.2	9.6	.0	6.8	100.0	413

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.3	.0	.0	.0	.0	.0	.1	.0	.8	1.6	
	4-10	.8	.0	.0	.3	.5	.5	.0	.0	.0	.0	2.2	
	11-21	.2	.0	.0	.1	.2	.3	.0	.1	.0	.0	.8	
	22+	.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.8	
	TOT %	2.0	.3	.0	.4	1.0	.8	.0	.2	.0	.8	5.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.5	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	TOT %	.3	.0	.0	.0	.0	.3	.0	.8	.0	.0	1.4	
1<2	0-3	.3	.0	.0	.0	.0	.0	.0	.3	.0	.3	.8	
	4-10	.5	.1	.0	.0	.3	.3	.4	.1	.0	.0	1.6	
	11-21	.5	.0	.0	.0	.5	.1	.0	.6	.0	.0	1.6	
	22+	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.5	
	TOT %	1.5	.1	.0	.0	.8	.6	.4	1.0	.0	.3	4.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.5	.8	
	4-10	.5	.9	.3	.3	.0	.1	.2	.3	.0	.0	2.5	
	11-21	.4	.3	.0	.0	.6	1.6	.2	1.0	.0	.0	4.1	
	22+	.3	.3	.0	.0	1.0	.3	.0	.0	.0	.0	1.9	
	TOT %	1.2	1.4	.3	.3	1.6	2.0	.4	1.6	.0	.5	9.3	
5<10	0-3	.0	.0	.0	.3	.0	.0	.3	.0	.0	1.1	1.6	
	4-10	2.3	1.0	.7	1.0	2.0	1.0	.3	.6	.0	.0	8.8	
	11-21	2.9	.6	.8	.8	2.1	1.0	.1	.1	.0	.0	8.5	
	22+	1.3	.1	.2	.3	2.3	.5	.2	.1	.0	.0	4.9	
	TOT %	6.5	1.6	1.6	2.3	6.5	2.5	.9	.8	.0	1.1	23.9	
10+	0-3	1.5	.3	.3	.3	.3	.3	.8	.7	.0	.0	4.9	
	4-10	1.7	1.0	1.9	3.2	4.4	2.1	1.4	1.9	.0	.0	17.6	
	11-21	4.6	2.5	1.6	.8	3.5	2.8	2.3	2.3	.0	.0	20.3	
	22+	3.4	.3	.0	.1	2.7	1.1	.3	.1	.0	.0	8.0	
	TOT %	11.3	4.1	3.8	4.3	10.9	6.3	4.7	5.0	.0	4.9	55.2	
TOT OBS													
TOT PCT		22.7	7.6	5.7	7.3	20.7	12.5	8.4	9.5	.0	7.7	100.0	364

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	200 599	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	9000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.4	.0	.0	4.5	14.0	15.9	10.8	1.3	2.5	.6	56.1	43.9	157
06009	8.3	.0	.0	2.8	15.3	2.8	5.6	4.2	2.8	1.4	43.1	56.9	72
12015	11.8	.0	.0	.0	10.3	5.9	7.4	.0	.0	1.5	36.8	63.2	68
18021	12.0	.0	.0	2.0	12.0	6.0	10.0	.0	2.0	2.0	46.0	54.0	59
TOT	30	0	0	10	46	34	31	5	7	4	167	180	347
PCT	8.6	.0	.0	2.9	13.3	9.8	8.9	1.4	2.0	1.2	48.1	51.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.6	1.7	4.4	12.2	20.0	56.1	180
06009	4.8	.0	4.8	10.8	25.3	54.2	83
12015	4.9	2.0	4.9	6.9	31.4	50.0	102
18021	4.0	1.3	8.0	10.7	24.0	52.0	75
TOT	22	6	23	46	107	236	440
PCT	5.0	1.4	5.2	10.5	24.3	53.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.4	9.6	25.6	34.0	47.4	156
06009	8.5	9.9	22.5	25.4	52.1	71
12015	11.5	14.8	24.6	16.4	59.0	61
18021	12.8	12.8	31.9	23.4	44.7	47
TOT	29	37	86	92	157	335
PCT	8.7	11.0	25.7	27.5	46.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	1.9	1.9	.0	.9	5	4.6
40/44	.0	.0	.9	.9	8.3	5.6	.9	3.7	22	20.4
35/39	.0	.0	.9	.0	16.7	14.8	3.7	8.3	48	44.4
30/34	.0	.0	.9	4.6	3.7	4.6	3.7	8.3	28	25.9
25/29	.0	.0	1.9	.9	.9	.9	.0	.0	5	4.6
TOTAL	0	0	5	7	34	30	9	23	108	100.0
PCT	.0	.0	4.6	6.5	31.5	27.8	8.3	21.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.9	.9	.2	2.3	.2	.0	.0
.9	.0	.0	1.2	11.6	4.9	.0	1.9	.0	.0
3.7	.9	2.3	3.9	19.4	9.7	2.3	1.2	.0	.9
10.4	4.9	.0	.2	4.4	1.9	.0	3.2	.0	.9
1.9	.9	1.9	.0	.0	.0	.0	.0	.0	.0
16.9	6.7	4.2	6.3	36.3	16.7	4.6	6.5	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	49	46	36	28	24	12	36.0	167
06009	51	50	45	37	29	28	28	37.5	80
12015	48	47	44	34	28	24	24	35.1	94
18021	55	54	45	35	28	27	27	34.6	75
TOT	55	49	45	36	28	24	12	35.8	416

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	20.0	28.6	22.9	11.4	17.1	71	35		
06009	.0	10.3	34.5	31.0	6.9	17.2	74	29		
12015	.0	5.0	40.0	25.0	.0	30.0	77	20		
18021	.0	10.7	25.0	32.1	10.7	21.4	75	28		
TOT	0	14	35	31	9	23	74	112		

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PERIOD: (PRIMARY) 1958-1974
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.3	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	3	.0	1.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.0	.3	.0	9	.3	2.6
9/10	.0	.0	.0	.0	.0	.0	.0	.7	2.9	.7	.3	.0	14	.3	4.2
7/8	.0	.0	.0	.0	.0	.0	.0	2.9	5.5	1.0	.0	.0	29	.7	8.8
6	.0	.0	.0	.0	.0	.0	.0	3.6	1.3	.0	.0	.0	15	2.0	2.9
5	.0	.0	.0	.0	.0	.0	2.0	3.6	1.0	.3	.0	.0	21	.7	6.2
4	.0	.0	.0	.0	.0	.0	3.6	6.8	.7	.3	.3	.0	36	2.3	9.4
3	.0	.0	.0	.0	.0	.0	2.0	3.9	.0	.0	.0	.0	18	1.0	4.9
2	.0	.0	.0	.0	.0	.0	3.9	3.9	.7	.0	.0	.0	26	1.3	7.2
1	.0	.0	.0	.0	.0	1.3	1.3	.3	.3	.0	.0	.0	10	.0	3.3
0	.0	.0	.0	.0	1.0	1.6	4.9	1.3	.7	.0	.0	.0	29	1.0	8.5
-1	.0	.0	.0	.0	.0	2.0	1.6	.3	.7	.0	.0	.0	14	.3	4.2
-2	.0	.0	.0	.0	.7	4.2	1.0	.7	.0	.0	.0	.0	20	.3	6.2
-3	.0	.0	.0	.0	.7	2.0	1.6	.7	.0	.0	.0	.0	15	.3	4.6
-4	.0	.0	.0	.0	1.6	1.3	2.9	.3	.0	.0	.0	.0	19	.0	6.2
-5	.0	.0	.0	.0	.3	1.3	.3	.0	.0	.0	.0	.0	6	.0	2.0
-6	.0	.0	.0	.0	1.0	.7	.0	.0	.0	.0	.0	.0	5	.0	1.6
-7/-8	.0	.0	.0	.0	2.0	.7	.0	.3	.0	.0	.0	.0	9	.0	2.9
-9/-10	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.0	4	.0	1.3
-11/-13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
-17/-19	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
-20/-22	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	1	0	1	25	46	78	90	44	15	5	1	307	33	274
PCT	.3	.3	.0	.3	8.1	15.0	25.4	29.3	14.3	4.9	1.6	.3	100.0	10.7	89.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.9	.4	.3	.0	.0	.0	2.7	.5	.4	.4	.0	.0	.0	1.4
1-2	.0	3.0	4.5	.0	.0	.0	7.5	.0	1.2	.4	.0	.0	.0	1.6
3-4	.0	.0	2.5	.0	.0	.0	2.5	.0	.4	.0	.1	.0	.0	.5
5-6	.0	.4	2.0	1.3	.0	.0	3.8	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.3	.8	.4	.0	1.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	1.7	.4	.0	3.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT. PCT	1.9	3.9	10.6	4.5	1.7	.0	22.6	.3	2.0	1.3	.1	.0	.0	4.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.4	.0	.0	.0	1.6	.4	3.0	.4	.0	.0	.0	3.9
1-2	.0	.0	.3	.0	.0	.0	1.3	.0	1.8	.3	.0	.0	.0	2.2
3-4	.0	.0	.4	.3	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT. PCT	.0	1.2	1.2	.3	.0	.0	2.7	.4	4.8	1.7	.1	.4	.0	7.5

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.0	.4	.0	.0	.0	4.4	.0	2.7	.0	.0	.0	.0	2.7
1-2	.0	3.9	1.9	.0	.0	.0	5.8	.0	1.3	1.8	.0	.0	.0	3.1
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.4	3.2	1.5	.0	.0	5.2	.0	.4	3.1	.6	.0	.0	4.2
7	.0	.0	1.5	3.4	.0	.0	5.0	.0	.0	.2	.8	.0	.0	1.0
8-9	.0	.0	.9	2.7	.6	.0	4.2	.0	.0	.0	.3	.2	.0	.5
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	9.6	8.4	1.0	.0	27.3	.0	4.4	5.7	2.3	.4	.0	12.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.4	.0	.0	.0	1.6	.0	.9	.5	.0	.0	.0	1.9	
1-2	.4	1.1	1.1	.0	.0	.0	2.6	.0	1.9	1.2	.0	.0	.0	3.1	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.0	.0	.0	.0	1.0	
5-6	.0	.0	.4	.4	.0	.0	.9	.0	.0	1.0	.4	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.3	2.4	.4	.3	.0	5.8	.5	2.8	4.2	.6	.0	.0	8.2	90.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.5	13.8	3.0	.0	.0	.0	29.3	
1-2	.4	14.2	11.6	.0	.0	.0	26.2	
3-4	.0	.4	6.5	.4	.0	.0	7.3	
5-6	.0	1.3	10.8	4.3	.0	.0	16.4	
7	.0	.0	3.0	5.2	.4	.0	8.6	
8-9	.0	.0	1.7	4.7	1.3	.0	7.8	
10-11	.0	.0	.0	1.3	.4	.0	1.7	
12	.0	.0	.0	.0	1.3	.0	1.3	
13-16	.0	.0	.0	.9	.4	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.9	29.7	36.6	16.8	3.9	.0	100.0	232

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	12.2	7.7	9.2	.9	1.8	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	4
6-7	.3	1.5	4.2	1.8	4.2	2.7	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	6
8-9	.0	.0	.6	.6	1.2	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
10-11	.0	.0	.3	.6	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	12.5	7.1	8.9	7.7	4.8	.8	.6	.6	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	148	3
TOTAL	44	70	76	69	37	18	11	3	5	0	2	1	0	0	0	0	0	0	0	336	4
PCT	13.1	20.8	22.6	20.5	11.0	5.4	3.3	.9	1.5	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1911-1974

MAY

AREA 0017 TATAR STRAIT N
50.1N 141.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	
N	2.7	.9	3.1	.0	5.8	.0	.0	12.5	2.7	.0	13.2	.0	.0	.0	71.6
NE	4.9	1.6	.4	.0	2.9	.0	.0	8.2	.0	.0	6.1	.0	.0	.0	85.7
E	14.0	.0	.0	.0	3.1	.0	.0	17.1	3.1	.0	17.8	.0	.0	.0	62.0
SE	12.7	.0	.4	.0	.0	.0	.0	13.1	1.5	.0	10.5	.0	.0	.0	74.9
S	5.9	.9	1.9	.0	.0	.0	.0	8.8	.5	.0	15.2	.0	.8	.0	74.8
SW	3.7	1.2	2.8	.0	.0	.0	.0	7.7	1.9	.0	12.1	.0	1.4	.0	77.0
W	4.7	3.5	3.5	.0	8.1	.0	.0	16.3	.0	.0	10.5	.0	.0	.0	73.3
NW	9.6	.4	7.9	.0	12.3	.0	.0	29.8	1.8	.0	5.3	.0	.0	.0	63.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	1.7	.0	1.7	.0	.0	5.0	1.7	.0	21.7	.0	.0	.0	71.7
TOT PCT	5.9	.8	2.4	.0	2.7	.0	.0	11.5	1.4	.0	12.9	.0	.4	.0	73.7
TOT OBS:	712														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	
00003	6.0	.3	1.3	.0	4.0	.0	.0	11.4	.7	.0	15.1	.0	1.0	.0	71.9
06009	3.8	1.5	2.3	.0	.0	.0	.0	7.5	.8	.0	12.0	.0	.0	.0	79.7
12015	6.8	1.0	4.4	.0	2.4	.0	.0	14.6	2.9	.0	9.2	.0	.0	.0	73.3
18021	5.8	1.0	1.0	.0	1.9	.0	.0	8.7	1.9	.0	16.5	.0	.0	.0	72.8
TOT PCT	5.8	.8	2.3	.0	2.6	.0	.0	11.2	1.5	.0	13.1	.0	.4	.0	73.8
TOT OBS:	741														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.2	7.1	6.1	1.7	.3	.0		16.4	12.4		15.0	22.3	15.3	21.7	15.5	23.1	14.1	21.2
NE	1.2	5.1	2.6	.1	.0	.0		9.0	8.3		9.2	3.8	4.4	10.9	11.0	11.5	14.1	3.8
E	.8	2.9	.8	.2	.0	.0		4.6	7.9		4.0	3.3	4.2	4.3	4.9	3.8	8.2	3.8
SE	.8	5.2	3.9	.2	.0	.0		10.1	9.8		7.8	12.0	7.8	.0	9.8	9.6	20.7	19.2
S	1.3	12.4	10.0	3.1	.2	.0		27.0	12.3		25.2	19.6	33.6	35.9	27.7	34.6	21.5	25.3
SW	1.4	5.8	4.8	1.9	.2	.0		14.1	12.7		15.7	22.8	19.7	20.7	10.2	5.8	6.6	11.5
W	.1	2.2	.8	.2	.0	.0		3.1	9.7		4.5	1.1	1.9	.0	4.1	3.8	1.2	.0
NW	.5	3.8	2.8	.3	.3	.0		7.7	12.1		10.2	8.7	7.5	2.2	8.8	3.8	2.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0		8.5	6.5	5.6	4.3	7.9	3.8	10.9	15.4
TOT OBS	102	295	209	50	7	0	663		10.5		224	46	90	23	164	26	64	26
TOT PCT	15.4	44.5	31.5	7.5	1.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	4.3	7.6	4.0	.4	.2		16.4	12.4	16.2	16.6	16.1
NE	4.0	4.2	.8	.0	.0		9.0	8.3	8.2	3.8	11.1
E	2.3	1.9	.4	.0	.0		4.6	7.9	3.9	4.2	6.9
SE	3.4	5.3	1.4	.0	.0		10.1	9.8	8.5	6.2	9.7
S	6.5	13.8	5.6	1.1	.0		27.0	12.3	24.3	34.1	28.7
SW	3.8	6.0	3.7	.6	.0		14.1	12.7	16.9	19.9	9.6
W	1.3	1.4	.4	.0	.0		3.1	9.7	3.9	1.5	4.1
NW	2.3	3.3	1.8	.4	.0		7.7	12.1	9.9	6.4	8.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	8.0						8.0	.0	8.1	5.3	7.4
TOT OBS	238	289	119	16	1	663		10.5	270	113	190
TOT PCT	35.9	43.6	17.9	2.4	.2		100.0		100.0	100.0	100.0

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MAY

AREA 0017 TATAR STRAIT N
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	8.1	7.0	41.5	34.1	7.8	1.5	.0	10.9	100.0		270
06009	5.3	7.1	45.1	29.2	1.5	1.8	.0	11.6	100.0		113
12015	7.4	5.3	51.6	28.4	6.8	.5	.0	10.1	100.0		190
18021	12.2	13.3	37.8	33.3	3.3	.0	.0	8.8	100.0		90
TOT	53	49	295	209	50	7	0	10.5			663
PCT	8.0	7.4	44.5	31.5	7.5	1.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.7	1.0	4.5	7.5		6.5
NE	1.0	.8	2.8	3.1		6.0
E	.8	.1	1.7	1.7		6.0
SE	2.0	.6	2.4	3.9		5.4
S	7.8	4.4	6.5	10.3		4.9
SW	2.1	2.7	5.2	4.6		5.4
W	.0	.6	1.4	.7		6.1
NW	1.4	1.0	2.5	3.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	2.6	.4	2.1	4.3		5.4
TOT OBS	104	62	155	213	534	5.6
TOT PCT	19.5	11.6	29.0	39.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	6999	13999	27999	55999		
N	1.1	.0	.2	.7	2.8	3.4	.7	.3	.3	.2	5.1	
NE	.4	.0	.0	.4	2.6	.8	.4	.0	.0	.0	3.0	
E	.7	.0	.0	.3	.8	.5	.0	.0	.0	.0	1.6	
SE	1.0	.0	.2	.8	1.4	.9	.2	.6	.2	.2	3.8	
S	3.0	.0	.7	.3	2.9	3.1	2.1	.7	.5	.7	15.0	
SW	1.2	.0	.1	.4	1.1	3.4	1.2	.2	.6	.2	7.2	
W	.3	.0	.0	.0	.3	.4	.1	.3	.0	.2	.9	
NW	1.2	.0	.0	.3	1.6	1.5	.6	.2	.0	.2	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.2	.2	1.3	.7	.4	.2	.0	.0	4.7	
TOT OBS	57	0	7	12	56	93	39	12	13	9	236	534
TOT PCT	10.7	.0	1.3	2.2	10.5	17.4	7.3	2.2	2.4	1.7	44.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.3	3.8	4.3	4.3	4.3	4.3	4.3	4.3
= OR >5000	5.1	5.8	6.5	6.5	6.5	6.5	6.5	6.5
= OR >3500	10.7	11.8	13.6	13.6	13.7	13.7	13.7	13.7
= OR >2000	19.9	25.1	28.9	29.8	30.7	30.9	30.9	30.9
= OR >1000	23.3	33.6	38.2	39.4	40.7	41.4	41.4	41.4
= OR >600	23.9	34.7	40.1	41.4	42.9	43.6	43.6	43.6
= OR >300	24.1	35.3	40.9	42.1	43.8	44.8	44.8	44.8
= OR >150	24.1	35.3	40.9	42.1	43.8	44.8	44.8	44.8
= OR >0	24.2	36.7	43.8	45.8	48.1	50.6	55.7	56.1
TOTAL	134	203	242	253	266	280	308	310

TOTAL NUMBER OF OBS: 553

PCT FREQ NH <5/8: 43.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	19.2	4.5	8.2	6.4	4.7	5.9	7.7	8.9	24.4	574

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.0	.1	.3	.0	.4	.4	.0	.0	1.5	
	NO PCP	.9	.4	.5	.2	2.4	1.7	.3	.2	.0	1.1	7.3	
	TOT %	1.1	.6	.5	.4	2.7	1.2	.7	.6	.0	1.1	8.8	
1/2<1	PCP	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	1.4	
	NO PCP	.4	.0	.1	.1	.5	.1	.0	.0	.0	.1	1.4	
	TOT %	.8	.0	.1	.1	.5	.4	.0	.6	.0	.1	2.8	
1<2	PCP	.2	.1	.1	.0	.4	.1	.0	.1	.0	.1	1.1	
	NO PCP	.0	.0	.1	.3	.2	.1	.0	.1	.0	.1	1.0	
	TOT %	.2	.1	.2	.3	.5	.2	.0	.3	.0	.3	2.1	
2<5	PCP	.4	*	.5	.5	.6	.8	.0	.6	.0	.3	3.8	
	NO PCP	.6	.8	.4	.6	.9	.9	.0	.3	.0	.6	5.0	
	TOT %	.9	.9	.9	1.1	1.5	1.7	.0	.9	.0	.8	8.8	
5<10	PCP	.6	.4	.1	.4	1.1	.0	.1	.6	.0	.1	3.5	
	NO PCP	3.6	1.4	.7	1.1	3.6	2.2	.6	.6	.0	1.0	14.6	
	TOT %	4.2	1.7	.8	1.5	4.8	2.2	.7	1.2	.0	1.1	18.1	
10+	PCP	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	6.2	5.2	2.0	5.9	17.2	9.5	1.6	4.3	.0	5.0	59.0	
	TOT %	6.3	5.3	2.0	6.0	17.2	9.5	1.6	4.3	.0	5.0	59.3	
TOT OBS													
TOT PCT													
		14.7	8.6	4.5	9.4	27.2	15.1	3.0	8.0	.0	6.6	100.0	713

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.5	.1	.2	.1	.1	.0	.1	.0	.8	2.0	
	4-10	.3	.2	.3	.0	1.3	.8	.5	.2	.0		3.5	
	11-21	.3	.0	.0	.2	1.0	.2	.3	.2	.0		2.1	
	22+	.1	.1	.0	.0	.2	.0	.0	.2	.0		.5	
	TOT %	.9	.7	.4	.4	2.5	1.0	.7	.7	.0	.8	8.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	4-10	.6	.0	.2	.2	.3	.0	.0	.2	.0		1.4	
	11-21	.4	.0	.0	.0	.3	.3	.0	.3	.0		1.4	
	22+	.0	.0	.0	.0	.1	*	.0	.0	.0		.2	
	TOT %	1.0	.0	.2	.2	.8	.5	.0	.5	.0	.0	3.0	
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3	.5	
	4-10	.3	*	.2	.3	.3	.0	.0	.2	.0		1.2	
	11-21	.0	.0	.0	.1	.2	*	.0	.0	.0		.3	
	22+	.1	*	.0	.0	.3	*	.0	.2	.0		.6	
	TOT %	.4	.1	.2	.3	.7	.2	.0	.3	.0	.3	2.6	
2<5	0-3	.1	.1	.2	.2	.5	.2	.0	.0	.0	.8	1.8	
	4-10	.4	.6	.5	.8	.8	.6	.0	.6	.0		4.4	
	11-21	.2	.3	.3	.2	.8	.7	.0	.3	.0		2.7	
	22+	.4	.0	.0	*	.2	*	.0	.1	.0		.8	
	TOT %	1.0	1.0	1.0	1.2	2.3	1.6	.0	1.0	.0	.8	9.7	
5<10	0-3	.2	.3	.2	.3	.1	.2	.0	.0	.0	1.1	2.3	
	4-10	1.7	1.1	.4	.7	1.6	.9	.5	.5	.0		7.3	
	11-21	2.0	.5	.1	.6	2.2	.7	.2	.6	.0		6.8	
	22+	.6	.0	.2	.0	1.0	.4	.2	*	.0		2.3	
	TOT %	4.4	1.9	.8	1.6	4.9	2.2	.8	1.1	.0	1.1	18.7	
10+	0-3	.8	.4	.4	.2	.6	.7	.1	.5	.0	5.0	8.7	
	4-10	3.8	3.3	1.3	3.2	8.1	3.6	1.3	2.1	.0		26.8	
	11-21	3.0	1.8	.4	2.9	5.4	2.9	.2	1.4	.0		18.0	
	22+	.8	.0	.0	.2	1.6	1.6	.0	.2	.0		4.4	
	TOT %	8.4	5.4	2.1	6.4	15.8	8.8	1.7	4.2	.0	5.0	57.8	
TOT OBS													
TOT PCT													
		16.1	9.1	4.6	10.0	27.0	14.3	3.2	7.8	.0	7.9	100.0	657

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TABLE 10

AREA 0017 TATAR STRAIT N
50.1N 141.8EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	10.6	.0	1.7	2.1	11.4	19.1	4.2	.8	3.0	2.5	55.5	44.5	236
06009	7.6	.0	.0	2.9	10.5	13.3	9.5	1.0	1.9	2.9	49.5	50.5	105
12015	12.4	.0	2.1	2.8	10.3	16.6	9.0	3.4	2.8	.0	59.3	40.7	145
18021	15.3	.0	.0	.0	6.9	18.1	9.7	5.6	1.4	1.4	58.3	41.7	72
TOT	62	0	7	12	58	96	40	12	14	10	311	247	558
PCT	11.1	.0	1.3	2.2	10.4	17.2	7.2	2.2	2.5	1.8	55.7	44.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	9.3	4.3	2.3	8.9	17.5	57.6	302
06009	6.7	.7	1.5	6.0	17.2	67.9	134
12015	8.6	1.4	2.9	12.4	21.5	53.1	209
18021	10.4	4.7	2.8	10.4	13.2	58.5	106
TOT	66	22	18	72	135	438	751
PCT	8.8	2.9	2.4	9.6	18.0	58.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HR	<150 <30YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	10.7	16.2	26.5	31.2	42.3	234
06009	7.6	8.6	17.1	34.3	48.6	105
12015	12.7	16.2	25.4	35.9	38.7	142
18021	15.3	16.7	23.6	36.1	40.3	72
TOT	62	82	133	186	234	553
PCT	11.2	14.8	24.1	33.6	42.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.8	.0	.0	.0	.0	.0	1	.8
55/59	.0	.0	.0	.8	.8	.0	.8	.0	3	2.4
50/54	.0	.0	.0	6.4	1.6	6.4	.8	2.4	22	17.6
45/49	.0	.0	1.6	1.6	4.8	15.2	8.8	5.2	44	35.2
40/44	.0	.0	.0	.0	1.6	8.0	6.4	5.6	27	21.6
35/39	.0	.0	.0	.0	1.6	1.6	8.8	7.2	24	19.2
30/34	.0	.0	.0	.0	.0	.8	.0	2.4	4	3.2
TOTAL	0	0	3	11	13	40	32	26	125	100.0
PCT	.0	.0	2.4	8.8	10.4	32.0	25.6	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
0-29	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
30-39	.0	.0	.0	.8	.8	.6	.0	.0	.0	.0
40-49	.6	.2	.0	1.0	9.2	5.8	.6	.2	.0	.0
50-59	2.2	1.0	.6	4.4	14.0	10.6	.6	.2	.0	1.6
60-69	5.6	1.8	1.4	2.0	5.2	2.4	.8	2.4	.0	.0
70-79	6.8	.6	2.2	2.4	1.4	2.6	1.6	.8	.0	.8
80-89	1.6	.0	.0	1.6	.0	.0	.0	.0	.0	.0
TOTAL	16.8	3.6	4.2	12.2	31.4	22.2	3.6	3.6	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	68	57	54	43	34	30	28	43.5	292
06009	57	55	52	43	38	34	27	43.6	128
12015	57	55	50	41	32	30	30	41.6	204
18021	59	54	51	41	34	29	29	41.6	105
TOT	68	57	53	43	34	30	27	42.7	729

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	14.3	16.3	22.4	26.5	20.4	77	49		
06009	.0	6.9	3.4	48.3	27.6	13.8	78	29		
12015	.0	14.8	7.4	37.0	18.5	22.2	78	27		
18021	.0	7.7	11.5	30.8	26.9	23.1	79	26		
TOT	0	15	14	43	33	26	78	131		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	M FOG	WQ FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	2	.0	.3
17/19	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	2	.0	.3
14/16	.0	.0	.0	.0	.3	.0	.6	.6	.5	.0	.0	13	.8	1.3
11/13	.0	.0	.0	.0	.2	1.4	1.6	.6	.3	.0	.0	26	.8	3.4
9/10	.0	.0	.0	.0	.6	2.4	2.2	1.3	.0	.2	.0	42	1.0	5.8
7/8	.0	.0	.0	.5	1.6	3.5	1.6	.6	.0	.0	.0	49	.8	7.1
6	.0	.0	.0	1.0	1.3	2.1	1.4	.0	.0	.0	.0	36	1.0	4.8
5	.0	.0	.0	1.1	2.7	3.0	2.4	.2	.0	.0	.0	59	.8	8.7
4	.0	.0	.0	1.8	3.0	3.2	.5	.0	.0	.0	.0	53	.5	8.0
3	.0	.0	.3	1.0	2.7	.8	.3	.2	.0	.0	.0	33	.5	4.8
2	.0	.0	.3	2.9	2.9	3.9	.8	.5	.2	.0	.0	71	1.4	10.0
1	.0	.0	.5	2.2	1.4	1.0	.2	.0	.0	.0	.0	33	1.1	4.2
0	.0	.3	1.3	3.5	2.2	1.9	.5	.0	.0	.0	.0	61	1.8	8.0
-1	.0	.0	.6	2.9	1.0	.3	.2	.0	.0	.0	.0	31	.6	4.4
-2	.0	.2	1.3	2.6	1.1	.3	.2	.0	.0	.0	.0	35	1.1	4.5
-3	.0	.2	1.0	.6	1.3	.0	.0	.0	.0	.0	.0	19	.2	2.9
-4	.2	.2	.6	.6	1.0	.2	.0	.0	.0	.0	.0	17	.5	2.2
-5	.0	.2	.6	1.1	.2	.0	.0	.0	.0	.0	.0	13	.5	1.6
-6	.2	.0	.3	.6	.2	.0	.0	.0	.0	.0	.0	8	.0	1.3
-7/-8	.0	.3	1.0	.3	.3	.0	.0	.0	.0	.0	.0	12	.3	1.6
-9/-10	.0	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.6
-11/-12	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-14/-16	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	2	9	52	146	151	151	27	6	1	1	1	623	65	538
PCT	.3	1.4	8.3	23.4	24.1	24.2	12.5	4.3	1.0	.2	.2	100.0	13.6	86.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	2.9	.3	.0	.0	.0	3.9	1.3	2.4	.3	.0	.0	.0	4.1
1-2	.0	.9	2.3	.0	.0	.0	3.3	.0	2.4	1.3	.0	.0	.0	3.7
3-4	.0	.2	2.4	.2	.0	.0	2.8	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	1.1	1.3	.0	.0	2.4	.0	.0	.5	.1	.0	.0	.6
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.1	6.8	2.2	.5	.0	14.2	1.3	4.8	2.5	.1	.0	.0	8.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.3	.4	.0	.0	.0	2.3	.3	2.0	1.0	.0	.0	.0	3.3
1-2	.0	.4	.6	.0	.0	.0	1.1	.0	2.0	2.0	.0	.0	.0	3.9
3-4	.0	.5	.0	.3	.0	.0	.8	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.3	1.1	.3	.0	.0	4.1	.3	4.3	4.2	.3	.0	.0	9.1

PERIOD: (OVER-ALL) 1963-1974

MAY

TABLE 18 (CONT)

AREA 0017 TATAR STRAIT N
50.1N 141.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.4	.5	.0	.0	.0	4.9	.3	1.9	.0	.0	.0	.0	2.2
1-2	.0	7.0	4.0	.0	.0	.0	11.0	.0	3.2	2.0	.0	.0	.0	5.2
3-4	.0	.4	9.1	.8	.0	.0	6.4	.0	.1	3.4	.7	.0	.0	4.1
5-6	.0	.4	2.5	.3	.0	.0	3.2	.0	.3	1.8	1.3	.3	.0	3.6
7	.0	.0	.4	.9	.2	.0	1.5	.0	.0	.0	.4	.1	.0	.4
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.2	.0	.4	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	11.3	12.5	3.5	.4	.0	28.7	.3	5.4	7.2	2.5	.4	.0	15.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.3	3.4	.0	.0	.0	.0	.0	3.6
1-2	.0	.2	.3	.0	.0	.0	.4	.0	.6	.9	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.1	.0	.0	.0	1.7
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.1	.1	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.8	.0	.0	.0	1.9	.3	4.2	3.8	.5	.5	.0	9.3	91.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.4	18.2	2.5	.0	.0	.0	33.2	
1-2	.0	16.7	13.4	.0	.0	.0	30.1	
3-4	.0	1.5	13.2	2.0	.0	.0	16.7	
5-6	.0	.8	7.8	9.3	.3	.0	12.2	
7	.0	.0	1.5	1.5	.3	.0	3.3	
8-9	.0	.0	.3	1.5	.0	.0	1.8	
10-11	.0	.3	.3	.8	.0	.0	1.3	
12	.0	.0	.0	.3	.8	.0	1.0	
13-16	.0	.0	.0	.0	.3	.0	.3	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	37.5	39.0	9.4	1.8	.0	100.0	395

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	12.2	10.5	6.5	1.9	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	3
6-7	.0	1.7	3.8	2.9	1.0	.8	.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	5
8-9	.0	.6	.4	1.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
10-11	.0	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
12-13	.0	.0	.2	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.2	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDET	14.9	11.6	14.1	6.1	1.1	.4	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	2
TOTAL	83	142	154	88	27	13	10	4	2	1	0	0	0	0	0	0	0	0	0	524	3
PCT	15.8	27.1	29.4	16.8	5.2	2.5	1.9	.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

WIND DIRECTION 0-6									
WIND SPEED (KNOTS)									
41+ TOTAL									
DBS									
PCT MEAN									
HOUR (GMT)									
00 06 09 12 15 18 21									
N	1.1	6.3	5.5	5.5	6.3	1.1	1.1	1.1	1.1
NE	2.5	2.5	3.3	3.3	2.5	2.5	2.5	2.5	2.5
E	1.8	1.8	2.0	2.0	1.8	1.8	1.8	1.8	1.8
SE	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
S	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
SW	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
W	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
NW	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CALM	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
TOT DBS	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
TOT PCT	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7

TABLE 3A

WIND DIRECTION 0-3									
WIND SPEED (KNOTS)									
48+ TOTAL									
DBS									
PCT MEAN									
HOUR (GMT)									
00 03 06 09 12 15 18 21									
N	1.8	6.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
NE	1.3	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
E	1.7	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SE	1.3	4.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
S	3.9	11.2	10.5	10.5	10.5	10.5	10.5	10.5	10.5
SW	1.6	8.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
W	1.4	2.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.8	2.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
CALM	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
TOT DBS	23.9	40.7	27.6	27.6	27.6	27.6	27.6	27.6	27.6
TOT PCT	23.9	40.7	27.6	27.6	27.6	27.6	27.6	27.6	27.6

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

TABLE 3

PRECIPITATION TYPE									
HOUR									
(GMT)									
RAIN									
RAZL									
FRZG									
SNOW									
OTHER									
MAIL									
PCPN AT									
DB TIME									
HOUR									
PCPN PAST									
THDR									
FOG									
PCPN									
PCPN									
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0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PERCENTAGE FREE OF LOW CLOUDS (EIGHTHS)

TABLE 7A

[illegible]

TABLE 7

PCT FREE OF TOTAL CLOUD AMOUNT (HEIGHTS)										PCT FREE OF TOTAL CLOUD AMOUNT (HEIGHTS)									
BY WIND DIRECTION					BY WIND DIRECTION					BY WIND DIRECTION					BY WIND DIRECTION				
WIND DIR	0-2	3-4	5-7	8	TOTAL CLOUD	WIND DIR	0-2	3-4	5-7	8	TOTAL CLOUD	WIND DIR	0-2	3-4	5-7	8	TOTAL CLOUD		
MEAN						MEAN						MEAN							
000	149	150	290	149	149	000	149	150	290	149	149	000	149	150	290	149	149		
010	0.0	0.0	0.0	0.0	0.0	010	0.0	0.0	0.0	0.0	0.0	010	0.0	0.0	0.0	0.0	0.0		
020	0.0	0.0	0.0	0.0	0.0	020	0.0	0.0	0.0	0.0	0.0	020	0.0	0.0	0.0	0.0	0.0		
030	0.0	0.0	0.0	0.0	0.0	030	0.0	0.0	0.0	0.0	0.0	030	0.0	0.0	0.0	0.0	0.0		
040	0.0	0.0	0.0	0.0	0.0	040	0.0	0.0	0.0	0.0	0.0	040	0.0	0.0	0.0	0.0	0.0		
050	0.0	0.0	0.0	0.0	0.0	050	0.0	0.0	0.0	0.0	0.0	050	0.0	0.0	0.0	0.0	0.0		
060	0.0	0.0	0.0	0.0	0.0	060	0.0	0.0	0.0	0.0	0.0	060	0.0	0.0	0.0	0.0	0.0		
070	0.0	0.0	0.0	0.0	0.0	070	0.0	0.0	0.0	0.0	0.0	070	0.0	0.0	0.0	0.0	0.0		
080	0.0	0.0	0.0	0.0	0.0	080	0.0	0.0	0.0	0.0	0.0	080	0.0	0.0	0.0	0.0	0.0		
090	0.0	0.0	0.0	0.0	0.0	090	0.0	0.0	0.0	0.0	0.0	090	0.0	0.0	0.0	0.0	0.0		
100	0.0	0.0	0.0	0.0	0.0	100	0.0	0.0	0.0	0.0	0.0	100	0.0	0.0	0.0	0.0	0.0		
110	0.0	0.0	0.0	0.0	0.0	110	0.0	0.0	0.0	0.0	0.0	110	0.0	0.0	0.0	0.0	0.0		
120	0.0	0.0	0.0	0.0	0.0	120	0.0	0.0	0.0	0.0	0.0	120	0.0	0.0	0.0	0.0	0.0		
130	0.0	0.0	0.0	0.0	0.0	130	0.0	0.0	0.0	0.0	0.0	130	0.0	0.0	0.0	0.0	0.0		
140	0.0	0.0	0.0	0.0	0.0	140	0.0	0.0	0.0	0.0	0.0	140	0.0	0.0	0.0	0.0	0.0		
150	0.0	0.0	0.0	0.0	0.0	150	0.0	0.0	0.0	0.0	0.0	150	0.0	0.0	0.0	0.0	0.0		
160	0.0	0.0	0.0	0.0	0.0	160	0.0	0.0	0.0	0.0	0.0	160	0.0	0.0	0.0	0.0	0.0		
170	0.0	0.0	0.0	0.0	0.0	170	0.0	0.0	0.0	0.0	0.0	170	0.0	0.0	0.0	0.0	0.0		
180	0.0	0.0	0.0	0.0	0.0	180	0.0	0.0	0.0	0.0	0.0	180	0.0	0.0	0.0	0.0	0.0		
190	0.0	0.0	0.0	0.0	0.0	190	0.0	0.0	0.0	0.0	0.0	190	0.0	0.0	0.0	0.0	0.0		
200	0.0	0.0	0.0	0.0	0.0	200	0.0	0.0	0.0	0.0	0.0	200	0.0	0.0	0.0	0.0	0.0		
210	0.0	0.0	0.0	0.0	0.0	210	0.0	0.0	0.0	0.0	0.0	210	0.0	0.0	0.0				

TABLE 6

MOON	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
0003	7.3	13.6	41.8	28.8	8.2	.3	.0	9.7	100.0	356
0608	16.8	10.2	35.3	26.9	10.2	.6	.0	9.5	100.0	107
1215	12.7	12.1	42.3	26.3	5.9	.0	.0	9.1	100.0	338
1821	9.9	15.5	40.1	28.2	6.3	.0	.0	9.1	100.0	142
2357	11.1	12.8	40.7	27.6	7.5	.4	.0	9.3	100.0	1001

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

4 37841

AREA 0017 TATAR STRAIT N
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PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

END

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

JUNE

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	7.7	1.8	4.0	.0	.0	.0	.0	13.6	.7	.0	8.2	.7	.0	.0	76.7
NE	12.9	1.3	2.0	.0	.0	.0	.0	16.2	2.6	.0	7.9	.0	.3	.0	72.9
E	6.7	.0	1.7	.0	.0	.0	.0	8.3	.0	.0	8.3	.0	1.7	.0	81.7
SE	5.7	.0	1.8	.0	.0	.0	.0	7.5	1.2	.0	11.9	.6	.0	.0	78.8
S	6.7	1.0	1.7	.0	.0	.0	.0	9.4	1.6	.0	26.6	1.1	.7	.7	60.0
SW	1.5	.0	1.3	.0	.0	.0	.0	2.8	.7	.0	21.1	.5	1.1	.0	73.9
W	4.6	.0	1.7	.0	.0	.0	.0	6.3	4.0	.0	14.9	.0	.0	.0	74.9
NW	10.2	2.7	.4	.0	.0	.0	.0	13.3	2.2	.0	12.0	.0	.0	.0	72.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1	.9	.0	.0	.0	.0	.0	7.0	1.8	.0	18.4	.0	.0	.0	72.8
TOT PCT	6.3	.9	1.7	.0	.0	.0	.0	8.9	1.4	.0	17.7	.6	.5	.2	70.7
TOT OBS:	1048														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
00003	3.6	1.0	2.1	.0	.0	.0	.0	6.7	2.3	.0	18.1	.5	.3	.0		72.0
06009	7.4	.0	1.1	.0	.0	.0	.0	8.5	.6	.0	13.1	.0	.0	.6		77.3
12015	7.3	1.1	1.7	.0	.0	.0	.0	10.1	1.1	.0	17.2	1.1	.8	.3		69.3
18021	8.6	.7	1.3	.0	.0	.0	.0	10.5	2.0	.0	24.3	.0	.7	.0		62.5
TOT PCT TOT OBS:	6.2 1069	.8	1.7	.0	.0	.0	.0	8.7	1.6	.0	17.9	.6	.5	.2		70.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.8	6.7	4.2	.4	.0	.0		13.1	9.3	10.0	18.7	9.7	18.6	14.9	18.9	13.3	10.0
NE	1.3	3.2	1.6	.5	.0	.0		6.7	9.1	5.9	6.0	6.0	7.0	7.2	4.7	8.4	10.0
E	.7	2.2	1.1	.1	.0	.0		4.1	8.2	3.6	1.5	3.2	1.2	4.5	3.8	8.2	7.0
SE	1.3	4.5	1.9	.4	.0	.0		8.1	9.1	4.2	3.7	5.4	3.5	6.1	22.6	9.8	16.0
S	3.9	11.2	10.3	3.5	.4	.0		29.4	12.3	29.4	17.9	29.0	20.9	33.1	32.1	31.3	26.0
SW	1.6	8.1	6.2	2.3	.0	.0		18.2	11.8	27.8	28.4	19.8	25.6	12.1	12.3	11.7	21.0
W	1.4	2.2	.6	.0	.0	.0		4.2	5.9	5.1	10.4	2.8	8.1	3.0	.9	.8	7.0
NW	.8	2.5	1.3	.2	.0	.0		5.1	9.1	6.3	11.9	4.6	5.8	4.0	4.7	2.4	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1							11.1	.0	8.7	1.5	19.4	9.3	15.1	0	14.1	2.0
TOT OBS	239	407	276	75	4	0	1001	9.3		287	67	124	43	285	53	92	50
TOT PCT	23.9	40.7	27.6	7.5	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	5.5	6.3	1.1	.2	.0		13.1	9.3	11.7	12.0	15.5	12.1
NE	3.3	2.5	.5	.3	.0		6.7	9.1	5.9	6.3	6.8	9.0
E	2.0	1.8	.2	.1	.0		4.1	8.2	3.2	2.7	4.4	7.7
SE	3.9	3.2	.9	.0	.0		8.1	9.1	7.3	4.9	8.7	12.0
S	10.2	10.6	6.6	1.7	.2		29.4	12.3	27.2	26.9	32.9	29.4
SW	5.7	7.7	4.1	.6	.0		18.2	11.8	23.9	21.3	12.1	15.0
W	3.0	1.0	.2	.0	.0		4.2	5.9	6.1	4.2	2.7	3.0
NW	2.8	1.4	.9	.0	.0		5.1	9.1	7.3	4.9	4.1	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.1						11.1	.0	7.3	16.8	12.7	9.9
TOT OBS	477	347	145	30	2	1001	9.3		354	167	338	142
TOT PCT	47.7	34.7	14.5	3.0	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

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AREA 0017 TATAR STRAIT N
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.3	13.6	41.8	28.8	8.2	.3	.0	9.7	100.0	354
0600	16.8	10.2	33.3	26.9	10.2	.6	.0	9.5	100.0	167
1200	12.7	12.1	42.3	26.3	5.9	.6	.0	9.0	100.0	338
1800	9.9	15.5	40.1	28.2	6.3	.0	.0	9.1	100.0	142
TOT	111	128	407	276	75	.4	.0	9.3		1001
PCT	11.1	12.8	40.7	27.6	7.5	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	2.3	1.8	3.4	4.7		5.6
NE	1.7	.6	1.6	3.2		5.6
E	1.3	.3	1.3	1.8		5.4
SE	1.6	.9	1.9	2.3		5.1
S	4.6	3.4	7.7	14.5		5.9
SW	2.6	2.4	6.2	6.5		5.8
W	.7	.3	.6	1.4		5.3
NW	.4	1.0	1.3	2.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	3.1	1.2	3.6	5.7		5.4
TOT OBS	138	89	207	316	750	5.7
TOT PCT	18.4	11.9	27.6	42.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.4	.0	.5	.9	1.3	2.3	.9	.1	.1	.0	5.6	
.5	.0	.3	.3	1.1	1.5	.6	.1	.0	.1	2.5	
.6	.0	.0	.0	.9	.7	.5	.1	.0	.1	1.8	
.3	.0	.0	.0	1.3	.9	1.0	.0	.0	.3	3.0	
6.7	.1	.3	1.2	4.0	5.0	1.5	.0	.5	.5	10.4	
2.6	.0	.1	.4	2.4	3.1	1.2	.1	.1	.3	7.3	
.1	.0	.1	.1	.3	.6	.3	.0	.0	.2	1.3	
.6	.0	.0	.0	.8	.9	.0	.0	.0	.3	1.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.7	.0	.1	.1	1.9	2.3	1.5	.4	.1	.3	5.2	
102	1	11	23	104	130	56	7	7	16	293	750
13.6	.1	1.5	3.1	13.9	17.3	7.5	.9	.9	2.1	39.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	2.2	3.0	3.0	3.0	3.0	3.0	3.0
>5000	1.8	3.2	3.9	3.9	3.9	3.9	3.9	3.9
>3500	7.0	10.0	11.4	11.4	11.4	11.4	11.4	11.4
>2000	16.8	24.6	27.8	28.0	28.4	28.7	28.7	28.7
>1000	21.8	33.7	41.4	42.0	42.3	42.8	42.9	42.9
>600	22.5	37.4	44.1	44.7	45.3	45.8	45.9	45.9
>300	22.6	37.8	45.3	46.1	46.8	47.2	47.4	47.4
>150	22.6	37.8	45.3	46.1	46.8	47.2	47.4	47.4
>0	22.8	37.9	46.3	47.2	48.8	54.2	60.4	60.9
TOTAL	173	288	352	359	371	412	459	463

TOTAL NUMBER OF OBS: 760

PCT FREQ NH <5/8: 39.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
15.4	4.6	8.5	4.4	5.1	4.8	6.0	10.4	27.9	13.0	800

PERIOD: (PRIMARY) 1942-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.1	.0	.2	.0	.0	.1	.0	.0	.6	
	NO PCP	.3	.4	.2	.3	5.1	2.5	.3	.2	.0	.9	10.3	
	TOT %	.3	.5	.2	.3	5.3	2.5	.3	.3	.0	.9	10.9	
1/2<1	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.2	.*	.0	.1	.6	.2	.1	.1	.0	.3	1.3	
	TOT %	.2	.*	.0	.1	.7	.3	.1	.1	.0	.3	1.7	
1<2	PCP	.1	.*	.0	.*	.4	.0	.0	.0	.0	.1	.7	
	NO PCP	.2	.0	.0	.0	.4	.3	.0	.1	.0	.3	1.2	
	TOT %	.3	.*	.0	.*	.7	.3	.0	.1	.0	.4	1.9	
2<5	PCP	1.0	.6	.0	.5	.6	.1	.1	.2	.0	.4	3.5	
	NO PCP	.6	.2	.4	.3	2.2	1.1	.1	.4	.0	.6	5.9	
	TOT %	1.3	.9	.4	.7	2.9	1.2	.2	.7	.0	1.0	9.5	
5<10	PCP	.5	.4	.3	.1	1.5	.2	.2	.3	.0	.3	3.7	
	NO PCP	2.3	1.8	.8	1.9	4.8	2.8	.6	.7	.0	1.3	16.9	
	TOT %	2.7	2.2	1.1	2.0	6.3	3.1	.7	1.0	.0	1.6	20.7	
10+	PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	NO PCP	7.8	3.6	2.6	4.7	13.3	10.4	2.8	3.1	.0	6.8	55.0	
	TOT %	8.0	3.6	2.6	4.7	13.3	10.4	2.8	3.1	.0	6.8	55.3	
TOT OBS													
TOT PCT													
		13.1	7.2	4.3	8.0	29.1	17.8	4.1	5.3	.0	10.9	100.0	1045

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.1	.8	.4	.2	.1	.0	.9	2.5	
	4-10	.3	.3	.2	.4	2.2	1.6	.2	.2	.0		5.4	
	11-21	.1	.1	.0	.*	2.0	.4	.0	.*	.0		2.6	
	22+	.0	.0	.0	.0	.5	.1	.0	.0	.0		.6	
	TOT %	.4	.5	.2	.5	3.4	2.6	.4	.4	.0	.9	11.2	
1/2<1	0-3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	.6	
	4-10	.1	.*	.0	.0	.2	.2	.1	.1	.0		.7	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.2	.*	.0	.0	.0		.2	
	TOT %	.2	.*	.0	.1	.6	.3	.1	.1	.0	.3	1.7	
1<2	0-3	.2	.1	.0	.0	.4	.1	.1	.0	.0	.4	1.2	
	4-10	.2	.0	.0	.0	.2	.1	.0	.1	.0		.6	
	11-21	.1	.0	.0	.*	.1	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.1	.3	.0	.0	.0	.0		.3	
	TOT %	.5	.1	.0	.1	.9	.3	.1	.1	.0	.4	2.4	
2<5	0-3	.1	.1	.1	.1	.3	.1	.0	.1	.0	1.0	1.9	
	4-10	1.0	.5	.2	.5	1.4	.8	.2	.3	.0		4.8	
	11-21	.7	.2	.1	.1	1.1	.8	.0	.3	.0		3.2	
	22+	.1	.0	.0	.0	.3	.1	.0	.0	.0		.3	
	TOT %	2.0	.8	.3	.7	3.1	1.7	.2	.6	.0	1.0	10.5	
5<10	0-3	.5	.7	.1	.4	.8	.3	.2	.1	.0	1.3	4.5	
	4-10	1.1	.4	.4	1.2	2.8	1.5	.4	.5	.0		8.2	
	11-21	.8	.7	.3	.3	2.0	1.1	.1	.4	.0		5.8	
	22+	.3	.4	.1	.1	.7	.3	.0	.1	.0		2.0	
	TOT %	2.7	2.2	.9	2.0	6.3	3.2	.7	1.1	.0	1.3	20.5	
10+	0-3	.8	.4	.6	.6	1.5	.6	1.0	.5	.0	6.9	12.9	
	4-10	4.0	2.1	1.5	2.6	4.3	4.0	1.2	1.2	.0		21.0	
	11-21	2.5	.8	.6	1.5	5.3	3.8	.5	.9	.0		15.6	
	22+	.1	.0	.0	.2	1.9	1.8	.0	.1	.0		4.2	
	TOT %	7.4	3.1	2.7	4.9	13.1	10.2	2.7	2.7	.0	6.9	53.7	
TOT OBS													
TOT PCT													
		13.1	6.7	4.1	8.2	29.4	18.4	4.2	5.0	.0	10.9	100.0	985

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974AREA 0017 TATAR STRAIT N
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

MOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	12.7	.0	1.0	1.9	14.3	21.1	8.8	.6	.6	3.6	64.6	35.4	308
06009	7.0	.0	.8	1.6	20.2	14.0	4.7	1.6	1.6	.8	51.9	48.1	129
12015	14.8	.4	1.6	4.8	10.8	16.8	8.0	.8	.8	1.6	60.4	39.6	250
18021	22.1	.0	3.5	4.7	12.8	10.5	4.7	1.2	1.2	.0	60.5	39.5	86
TOT	104	1	11	24	108	134	37	7	7	16	469	304	773
PCT	13.5	.1	1.4	3.1	14.0	17.3	7.4	.9	.9	2.1	60.7	39.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

MOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	10.3	1.8	2.3	9.2	18.7	57.7	390
06009	7.3	.0	.6	9.5	20.7	62.0	179
12015	12.3	1.1	3.1	11.4	23.4	48.7	359
18021	13.5	3.1	3.2	12.2	17.3	48.7	156
TOT	118	19	26	113	221	587	1084
PCT	10.9	1.8	2.4	10.4	20.4	54.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

MOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	12.7	15.9	25.0	41.2	33.8	308
06009	7.2	8.8	19.2	34.4	46.4	125
12015	15.3	17.8	30.6	33.1	36.4	242
18021	22.4	28.2	37.6	24.7	37.6	85
TOT	104	127	207	271	292	760
PCT	13.7	16.7	27.2	35.7	37.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	1.8	.0	.0	.9	1.8	1.8	.0	7	6.3
55/59	.0	.0	.9	.9	1.8	3.6	9.0	5.4	24	21.6
50/54	.0	.0	.0	.0	2.7	2.7	17.1	13.5	40	36.0
45/49	.0	.0	.0	.9	.9	4.5	9.9	11.7	31	27.9
40/44	.0	.0	.0	.0	.0	.9	.0	7.2	9	8.1
TOTAL	0	2	1	2	7	15	42	42	111	100.0
PCT	.0	1.8	.9	1.8	6.3	13.5	37.8	37.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.9	.0	.9	.9	.9	.9	.0	.0	1.8
55/59	1.6	1.8	.0	1.1	5.9	9.2	.0	.2	.0	1.8
50/54	3.2	2.9	.0	2.7	7.7	10.4	3.4	.5	.0	5.4
45/49	5.2	2.3	.7	.9	14.0	2.3	.0	.9	.0	1.8
40/44	1.6	.0	2.7	.0	2.5	.2	.0	1.1	.0	.0
TOTAL	11.5	7.9	3.4	5.6	30.9	23.0	4.3	2.7	.0	10.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	67	61	52	44	41	39	52.6	386
06009	73	72	63	53	41	39	39	52.9	182
12015	82	64	59	50	41	36	32	49.6	364
18021	63	60	57	48	37	34	33	48.3	156
TOT	82	66	61	51	41	37	32	51.0	1088

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.9	14.3	8.6	40.0	34.3	83	35		
06009	.0	.0	6.9	17.2	48.3	27.6	85	29		
12015	.0	16.0	.0	16.0	32.0	36.0	82	25		
18021	.0	.0	.0	12.5	33.3	54.2	90	24		
TOT	0	5	7	15	44	42	85	113		

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 46	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.3	.0	.1	.0	.1	.0	.0	5	.0	.5
17/19	.0	.0	.0	.0	.2	.1	.1	.2	.0	.0	.1	.1	8	.2	.6
14/16	.0	.0	.0	.0	.2	.3	.2	.3	.8	.0	.0	.0	18	.1	1.8
11/13	.0	.0	.0	.1	.4	1.4	.9	1.0	.3	.0	.0	.0	40	.5	3.6
9/10	.0	.0	.1	.3	.9	1.4	2.0	.7	.0	.0	.1	.0	53	.6	4.9
7/8	.0	.0	.0	1.5	1.0	1.6	1.9	.6	.0	.0	.0	.0	63	1.0	5.5
6	.0	.0	.0	.3	.9	.7	1.3	.0	.0	.0	.0	.0	31	.5	2.7
5	.0	.1	.1	2.1	2.7	2.5	1.8	.4	.0	.0	.0	.0	93	.8	8.9
4	.0	.5	1.0	1.5	3.1	2.4	.6	.2	.0	.0	.0	.0	93	1.0	8.7
3	.0	.0	.5	.9	1.4	2.3	.3	.0	.0	.0	.0	.0	54	1.5	4.2
2	.0	.4	1.3	3.0	3.2	3.3	.7	.0	.0	.0	.0	.0	115	2.7	9.3
1	.0	.1	.2	1.9	1.4	1.4	.2	.1	.0	.0	.0	.0	50	.8	4.4
0	.1	1.0	1.3	5.0	2.9	2.5	.7	.0	.0	.0	.0	.0	130	2.6	10.9
-1	.0	.3	.3	1.1	1.7	.9	.2	.1	.0	.0	.0	.0	45	1.5	3.2
-2	.0	.3	.7	3.3	1.3	.5	.2	.0	.0	.0	.0	.0	61	.7	5.6
-3	.0	.0	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	16	.3	1.4
-4	.0	.0	.6	.8	.6	.1	.1	.1	.0	.0	.0	.0	23	.7	1.7
-5	.0	.2	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	20	.3	1.8
-6	.1	.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	8	.1	.7
-7/-8	.0	.0	.0	.4	.9	.3	.1	.0	.0	.0	.0	.0	17	.3	1.5
-9/-10	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
-11/-13	.1	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	6	.1	.5
-14/-16	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.2	.2
-17/-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	3	30	75	238	221	110	38	11	1	1	1	1	959	16.9	79.7
PCT	.3	3.1	7.8	24.8	23.9	11.5	4.0	1.1	.1	.1	.2	.1	100.0	16.9	83.1

PERIOD: (OVER-ALL) 1965-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	2.7	.2	.0	.0	.0	3.5	.5	2.4	.9	.0	.0	.0	3.8
1-2	.1	2.4	2.6	.0	.0	.0	5.1	.2	1.0	.9	.0	.0	.0	2.1
3-4	.0	.8	1.3	.2	.0	.0	2.3	.0	.4	.8	.2	.0	.0	1.4
5-6	.0	.0	.5	.2	.0	.0	.7	.0	.0	.0	.5	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.2	4.6	.6	.0	.0	12.1	.7	3.8	2.6	.8	.0	.0	7.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.1	.0	.0	.0	.0	1.5	.2	2.0	.2	.0	.0	.0	2.4
1-2	.0	1.1	1.0	.0	.0	.0	2.2	.0	1.6	1.6	.0	.0	.0	3.3
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.4	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	1.3	.1	.0	.0	4.4	.2	3.9	2.2	.4	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	5.8	.2	.0	.0	.0	7.9	.5	2.2	.2	.0	.0	.0	2.8
1-2	.3	3.3	4.4	.0	.0	.0	8.0	.2	3.7	2.3	.0	.0	.0	6.2
3-4	.3	.5	4.5	1.1	.0	.0	6.4	.*	.2	3.0	.2	.0	.0	3.4
5-6	.0	.2	2.9	1.1	.0	.0	4.2	.0	.*	.9	.8	.0	.0	1.8
7	.0	.0	1.0	1.5	.0	.0	2.4	.0	.0	1.0	.5	.0	.0	1.6
8-9	.0	.0	.5	.4	.0	.0	.9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	9.8	13.6	4.4	.0	.0	30.4	.7	6.1	7.7	2.1	.0	.0	16.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.5	.0	.0	.0	.0	1.6	.4	.8	.0	.0	.0	.0	1.2	
1-2	.2	.6	.5	.0	.0	.0	1.2	.2	1.4	.6	.0	.0	.0	2.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.2	.0	.0	.9	
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.2	.6	.0	.0	.0	3.2	.6	2.3	1.7	.5	.0	.0	5.0	86.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.4	18.6	1.6	.0	.0	.0	38.6	
1-2	1.3	15.1	13.8	.0	.0	.0	30.2	
3-4	.4	2.0	10.9	1.8	.0	.0	15.1	
5-6	.0	.5	4.7	3.1	.0	.0	8.4	
7	.0	.0	2.2	2.2	.0	.0	4.4	
8-9	.0	.0	.7	.9	.0	.0	1.6	
10-11	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.4	.2	.0	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.0	36.6	34.4	8.9	.0	.0	100.0	549

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	16.6	6.1	4.7	1.7	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	3
6-7	.0	1.2	2.4	2.8	1.9	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	5
8-9	.0	.7	1.2	1.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
10-11	.0	1.2	.7	.3	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
12-13	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
>13	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	21.5	8.4	12.7	3.2	3.2	1.2	.1	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	381	2
TOTAL	179	210	181	93	53	20	4	2	2	4	0	0	0	0	0	0	0	0	0	748	3
PCT	23.9	28.1	24.2	12.4	7.1	2.7	.5	.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

JULY

AREA 0017 TAYAR STRAIT N
50.6N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.7	1.6	5.2	.0	.0	.0	.0	14.5	3.8	.0	13.6	1.3	.0	.0	66.9
NE	4.7	.6	9.0	.0	.0	.0	.0	15.1	2.8	.0	13.6	.0	.0	.0	68.5
E	7.0	3.6	3.6	.0	.0	.0	.0	16.3	.0	.0	6.0	.0	.0	.0	77.7
SE	16.9	3.4	3.7	.0	.0	.0	.0	24.0	.0	.0	14.0	.6	.0	.0	61.4
S	5.4	1.2	5.5	.0	.0	.0	.0	12.1	2.5	.0	19.5	.9	.0	.3	64.7
SW	4.1	.0	3.2	.0	.0	.0	.0	7.3	.8	.0	17.0	.1	.0	.5	74.3
W	7.7	.0	7.7	.0	.0	.0	.0	15.5	1.9	.0	18.7	.0	.0	.0	63.9
NW	5.4	.0	4.6	.0	.0	.0	.0	10.0	1.7	.0	13.4	1.7	.0	.0	73.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	3.7	5.8	.0	.0	.0	.0	10.3	1.9	.0	21.8	.0	.0	.0	66.0
TOT PCT	6.1	1.5	5.2	.0	.0	.0	.0	12.8	1.9	.0	16.6	.6	.0	.2	68.0
TOT OBS:	1196														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.5	1.4	5.5	.0	.0	.0	.0	13.4	1.4	.0	18.7	.5	.0	.5	65.6
06009	4.9	1.8	3.5	.0	.0	.0	.0	10.2	3.1	.0	13.0	1.3	.0	.0	70.4
12015	6.0	1.1	3.0	.0	.0	.0	.0	10.2	2.7	.0	13.9	.5	.0	.0	70.8
18021	6.7	1.8	9.3	.0	.0	.0	.0	17.8	.0	.0	17.3	.0	.4	.0	64.4
TOT PCT	6.1	1.5	5.1	.0	.0	.0	.0	12.7	1.9	.0	17.0	.6	.1	.2	67.7
TOT OBS:	1233														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	6.2	5.3	.2	.1	.0		13.1	10.1		11.7	21.4	16.9	25.0	10.5	15.5	11.1	20.0
NE	.5	3.8	2.1	.2	.0	.0		6.7	9.4		5.2	7.1	6.0	4.2	7.8	.0	10.4	2.0
E	.7	4.5	1.8	.0	.0	.0		7.0	8.5		5.4	1.2	5.9	.0	8.0	1.7	12.4	8.0
SE	.7	3.9	2.1	.4	.1	.0		7.1	9.7		7.0	6.0	6.1	3.3	6.8	15.5	7.2	16.0
S	1.6	11.9	11.1	4.1	.5	.0		29.3	13.1		25.8	22.6	31.8	23.3	30.2	36.2	27.7	28.0
SW	1.2	6.8	6.6	1.4	.1	.0		16.1	12.0		21.0	19.0	15.4	20.0	12.6	12.1	12.4	18.0
W	.7	2.0	.5	.0	.0	.0		3.2	7.0		2.4	8.3	2.7	5.0	3.7	5.2	2.8	4.0
NW	.5	3.5	1.2	.0	.0	.0		5.2	8.0		6.0	7.1	7.9	12.5	2.8	10.3	2.6	4.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.3							12.3	.0		12.4	7.1	7.1	6.7	17.7	3.4	13.4	.0
TOT OBS	228	499	361	74	10	0	1172		9.7		364	42	183	30	305	29	194	23
TOT PCT	19.5	42.6	30.8	6.3	.9	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	4.5	7.1	1.2	.3	.0			13.1	10.1		12.7	18.1	10.9	12.1	
NE	2.6	3.4	.6	.0	.0			6.7	9.4		5.4	5.8	7.1	9.5	
E	2.6	4.0	.4	.0	.0			7.0	8.5		4.9	5.0	7.4	11.9	
SE	3.3	2.8	.9	.1	.0			7.1	9.7		6.9	5.8	7.6	8.2	
S	7.3	12.8	7.2	1.9	.0			29.3	13.1		28.2	30.6	30.7	27.7	
SW	4.7	7.2	3.5	.7	.0			16.1	12.0		20.8	16.1	12.6	13.0	
W	1.8	1.2	.2	.0	.0			3.2	7.0		3.0	3.1	3.8	3.0	
NW	2.4	2.6	.2	.0	.0			5.2	8.0		6.2	8.6	3.4	2.7	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	12.3							12.3	.0		11.8	7.0	16.5	11.9	
TOT OBS	487	482	167	36	0	1172			9.7		406	213	334	219	
TOT PCT	41.6	41.1	14.2	3.1	.0			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

JULY

AREA 0017 TATAR STRAIT N
50.6N 141 7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	11.8	6.7	43.3	31.3	5.4	1.5	.0	9.7	100.0	406
0600	7.0	8.0	43.7	29.8	11.3	.5	.0	11.0	100.0	213
1200	16.5	6.6	40.1	32.0	4.8	.0	.0	9.0	100.0	334
1800	11.9	8.2	43.9	29.2	5.5	1.4	.0	9.3	100.0	219
TOT	144	84	420	361	74	10	0	9.7		1172
PCT	12.3	7.2	42.6	30.8	6.3	.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.6	4.7	6.1		6.6
NE	1.0	.6	1.7	3.6		6.2
E	.8	.9	2.2	3.9		6.4
SE	.8	.4	1.2	4.7		6.6
S	3.4	2.0	6.7	16.3		6.4
SW	2.0	1.7	5.0	7.0		6.0
W	.3	.3	.6	1.6		6.4
NW	.7	.3	1.8	2.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	1.7	1.4	3.4	7.4		6.2
TOT OBS	117	82	271	522	992	6.3
TOT PCT	11.8	8.3	27.3	52.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
1.1	.2	.2	.4	2.6	2.7	1.8	.3	.1	.0	3.0	
.4	.2	.2	.4	1.8	1.0	.4	.3	.2	.0	2.6	
.2	.1	.3	.5	1.4	1.4	.6	.4	.2	.1	2.6	
.7	.6	.1	.3	1.4	.9	1.3	.2	.0	.2	2.2	
4.7	.6	1.4	1.4	4.0	5.1	1.6	1.5	.2	.3	7.7	
2.0	.3	.5	.3	2.5	2.1	1.1	.4	.0	.1	6.4	
.5	.0	.0	.3	.6	.4	.1	.0	.1	.0	.9	
.2	.0	.3	.2	1.3	.9	.1	.1	.0	.1	1.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2.4	.1	.2	.5	2.6	1.9	1.4	.2	.1	.6	3.8	
122	13	31	42	180	161	84	34	7	12	306	792
12.3	1.3	3.1	4.2	18.1	16.2	8.5	3.4	.7	1.2	30.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.7	2.0	2.0	2.0	2.0	2.0	2.0
>5000	4.4	5.1	5.4	5.4	5.4	5.4	5.4	5.4
>3500	9.9	12.9	13.8	13.9	14.0	14.0	14.0	14.0
>2000	20.0	26.9	29.6	30.0	30.1	30.3	30.3	30.3
>1000	27.4	40.9	45.9	47.2	47.6	48.0	48.0	48.0
>600	28.5	43.5	49.8	51.1	51.6	52.0	52.2	52.2
>300	29.0	44.9	52.3	54.1	54.7	55.1	55.3	55.3
>150	29.1	45.3	53.2	55.0	55.8	56.3	56.5	56.5
>0	29.1	45.7	54.1	56.6	58.2	61.3	68.1	68.8
TOTAL	293	460	545	570	586	617	686	693

TOTAL NUMBER OF OBS: 1007

PCT FREQ NH <5/8: 31.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
11.2	3.8	5.8	4.3	5.5	4.3	8.0	9.3	35.5	12.2	1043

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	NO PCP	.8	.3	.2	.4	3.7	1.6	.3	.5	.6	2.2	10.3	
	TOT %	.9	.3	.2	.5	3.8	1.6	.3	.5	.0	2.2	10.6	
1/2<1	PCP	.1	.0	.1	.0	.1	.1	.1	.0	.0	.1	.5	
	NO PCP	.1	.0	.0	.2	.5	.2	.1	.0	.0	.2	1.3	
	TOT %	.2	.0	.1	.2	.6	.3	.2	.0	.0	.3	1.8	
1<2	PCP	.2	.3	.1	.3	.4	.0	.0	.0	.0	.1	1.3	
	NO PCP	.3	.2	.0	.2	.6	.2	.0	.1	.0	.2	1.7	
	TOT %	.5	.4	.1	.4	.9	.2	.0	.1	.0	.3	2.9	
2<5	PCP	.7	.2	.4	.8	1.5	.5	.2	.2	.0	.3	4.6	
	NO PCP	.4	.6	.4	.4	1.7	1.0	.3	.3	.0	.5	5.6	
	TOT %	1.1	.8	.8	1.2	3.2	1.5	.5	.5	.0	.8	10.4	
5<10	PCP	.8	.5	.5	.6	1.3	.5	.2	.3	.0	.8	5.6	
	NO PCP	2.6	.9	1.0	.5	4.4	2.0	.3	.9	.0	2.2	14.8	
	TOT %	3.4	1.5	1.5	1.2	5.7	2.5	.5	1.2	.0	3.0	20.4	
10+	PCP	.1	*	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	NO PCP	7.1	3.6	4.2	3.8	14.2	9.5	1.6	2.8	.0	6.6	53.5	
	TOT %	7.3	3.7	4.2	3.8	14.3	9.5	1.6	2.8	.0	6.6	53.9	
TOT OBS		1190											
TOT PCT		13.2	6.7	7.0	7.4	28.6	15.8	3.3	5.0	.0	13.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.2	.4	.6	.1	.1	.0	2.2	3.7	
	4-10	.5	.2	.2	.2	1.5	.3	.3	.4	.0		4.1	
	11-21	.2	.1	.1	*	1.7	.4	.0	.0	.0		2.5	
	22+	.0	.0	.0	.1	.4	*	.0	.0	.0		.5	
	TOT %	1.0	.3	.2	.6	3.9	1.8	.4	.4	.0	2.2	10.8	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.4	
	4-10	.2	.0	.0	.1	.4	.2	.1	.0	.0		1.1	
	11-21	.0	.0	.1	.0	.2	.1	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.1	.2	.6	.3	.2	.0	.0	.3	1.9	
1<2	0-3	.0	.1	.0	.0	.2	.0	.0	.0	.0	.2	.4	
	4-10	.3	.3	.1	.3	.6	.1	.0	.1	.0		1.9	
	11-21	.1	.0	.1	.1	.2	.2	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.4	.2	.4	1.0	.3	.0	.1	.0	.2	2.9	
2<5	0-3	.0	.2	.1	.1	.1	.2	.2	.1	.0	.8	1.7	
	4-10	.8	.4	.5	.6	1.2	.8	.3	.3	.0		4.9	
	11-21	.5	.3	.2	.3	1.1	.5	.1	.1	.0		3.0	
	22+	.0	.0	.0	.1	.8	*	.0	.0	.0		1.0	
	TOT %	1.3	.8	.8	1.1	3.1	1.6	.5	.5	.0	.8	10.5	
5<10	0-3	.5	*	.1	*	.2	.1	.2	.0	.0	2.9	4.1	
	4-10	1.4	1.0	.9	.7	2.0	.9	.3	.7	.0		7.9	
	11-21	1.2	.5	.5	.4	2.2	1.3	.2	.5	.0		6.6	
	22+	.2	.0	.0	.0	.8	.1	.0	.0	.0		1.1	
	TOT %	3.2	1.5	1.5	1.1	5.3	2.4	.6	1.2	.0	2.9	19.7	
10+	0-3	.6	.3	.4	.2	.4	.2	.3	.3	.0	6.3	8.8	
	4-10	3.0	2.0	2.9	2.0	5.7	3.9	1.2	2.0	.0		22.7	
	11-21	3.4	1.3	1.0	1.3	5.6	4.4	.2	.7	.0		17.9	
	22+	.2	.2	.0	.2	2.8	1.3	.0	.0	.0		4.7	
	TOT %	7.1	3.8	4.3	3.8	14.5	9.8	1.7	2.9	.0	6.3	54.2	
TOT OBS		1131											
TOT PCT		13.1	6.9	7.0	7.2	28.4	16.2	3.4	5.1	.0	12.6	100.0	

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1970-1974AREA 0017 TATAR STRAIT N
50.6N 141.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	13.3	1.1	3.5	4.1	17.7	18.5	7.1	3.8	.8	1.4	71.2	28.8	368
06609	8.6	.5	4.3	2.2	17.3	16.2	9.2	2.7	.5	1.1	62.7	37.3	185
12615	13.6	1.4	3.1	3.1	17.0	15.6	8.5	3.1	1.4	1.4	68.0	32.0	294
18621	12.8	2.2	1.7	8.4	19.6	11.7	11.2	3.4	.0	.6	71.5	28.5	179
TOT	128	13	33	43	182	165	88	34	8	12	706	320	1026
PCT	12.5	1.3	3.2	4.2	17.7	16.1	8.6	3.3	.8	1.2	68.8	31.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	11.9	1.2	2.4	11.7	18.3	54.5	420
06609	7.1	.9	4.5	5.4	22.8	59.4	224
12615	10.7	2.8	2.8	12.4	21.2	50.1	363
18621	11.9	1.8	3.5	11.9	20.3	50.7	227
TOT	132	21	38	133	251	659	1234
PCT	10.7	1.7	3.1	10.8	20.3	53.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	13.2	19.6	31.1	41.9	27.0	363
06609	7.7	13.3	19.9	43.1	37.0	181
12615	13.6	19.5	33.1	38.3	28.6	287
18621	13.1	19.3	35.8	40.9	23.3	176
TOT	124	185	307	412	288	1007
PCT	12.3	18.4	30.5	40.9	28.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	1.4	1.7	1.1	.0	15	4.2
60/64	.0	.0	.0	.0	.6	3.9	12.1	15.2	113	31.7
55/59	.0	.0	.3	.6	1.4	8.7	15.7	23.9	180	50.6
50/54	.0	.0	.0	.0	1.4	.8	2.2	6.7	40	11.2
45/49	.0	.0	.0	.3	.0	.0	.0	2.0	8	2.2
TOTAL	0	0	1	3	17	54	111	170	356	100.0
PCT	.0	.0	.3	.4	4.8	15.2	31.2	47.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.4	.5	.8	2.0	.3	.0	.0	.0	.0
6.2	2.8	2.7	2.6	8.2	5.0	.8	.7	.0	2.8
6.8	2.7	2.9	4.8	13.7	9.6	1.6	2.9	.0	5.6
.3	.9	1.9	.4	3.7	1.9	.6	.3	.0	1.4
.2	.4	.0	.3	.0	.8	.0	.0	.0	.6
13.8	7.1	7.9	8.8	27.5	17.6	2.9	3.9	.0	10.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	76	72	68	59	52	49	45	59.2	429
06609	85	76	68	60	52	48	43	60.2	225
12615	73	70	65	58	50	47	46	53.0	367
18621	80	70	62	57	49	46	42	56.4	232
TOT	85	72	67	59	50	47	42	58.5	1253

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	1.0	5.1	18.4	30.6	44.9	86	98		
06609	.0	.0	4.5	15.7	27.1	42.7	87	89		
12615	.0	2.3	6.9	12.6	31.0	47.1	87	87		
18621	.0	1.2	2.4	12.9	24.7	58.8	89	85		
TOT	0	4	17	54	111	173	87	359		

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974AREA 0017 TATAR STRAIT N
50.6N 141.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	49 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	3	.0	.3
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	3	.1	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	5	.0	.5
14/16	.0	.0	.0	.1	.2	.1	.2	.1	.2	.0	.0	.0	9	.1	.8
11/13	.0	.0	.1	.3	.0	1.1	1.1	.3	.1	.0	.0	.0	29	.6	2.2
9/10	.0	.0	.0	.1	.3	1.2	.7	.4	.1	.0	.0	.0	28	.2	2.9
7/8	.0	.1	.1	.3	1.1	1.8	1.2	.4	.0	.0	.0	.0	51	.5	4.4
6	.0	.0	.1	.2	.7	1.0	.8	.0	.0	.0	.0	.0	28	.4	2.3
5	.0	.0	.2	.9	1.9	2.2	1.3	.1	.0	.0	.0	.0	68	1.2	5.4
4	.0	.0	.2	2.0	3.7	4.5	.3	.2	.0	.0	.0	.0	113	1.0	9.9
3	.0	.0	.5	.7	1.2	1.6	.2	.0	.0	.0	.0	.0	43	.6	3.6
2	.0	.2	.7	3.6	4.4	3.2	.7	.1	.0	.0	.0	.0	133	1.7	11.1
1	.0	.0	.3	1.6	3.4	1.3	.1	.0	.0	.0	.0	.0	70	1.6	5.1
0	.0	.4	1.2	3.8	6.7	1.8	.3	.0	.0	.0	.0	.0	148	3.3	11.0
-1	.0	.0	.5	1.1	2.8	1.2	.0	.0	.0	.0	.0	.0	57	1.1	4.4
-2	.0	.2	.7	1.9	5.3	1.2	.0	.0	.0	.0	.0	.0	96	1.9	7.3
-3	.0	.0	.8	.2	.7	.7	.0	.0	.0	.0	.0	.0	34	.6	2.7
-4	.0	.3	.9	1.9	2.9	.0	.0	.0	.0	.0	.0	.0	62	1.3	4.4
-5	.0	.2	.7	.7	.5	.2	.0	.0	.0	.0	.0	.0	23	.6	1.6
-6	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	6	.1	.5
-7/-8	.1	.0	.9	.5	.3	.3	.0	.0	.0	.0	.0	.0	21	.3	1.7
-9/-10	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	15	83	222	376	241	73	17	4	3	0	4	1040	17.2	82.8
PCT	.2	1.4	8.0	21.3	36.2	23.1	7.0	1.6	.4	.3	.0	.4	100.0	17.2	82.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.1	.0	.0	.0	.0	4.3	.2	1.3	.0	.0	.0	.0	1.5
1-2	.0	2.5	.0	.0	.0	.0	6.1	.0	1.4	1.3	.0	.0	.0	2.7
3-4	.0	.3	3.5	.0	.0	.0	3.8	.0	.0	.1	.2	.0	.0	.3
5-6	.0	.2	.6	.0	.0	.0	.8	.0	.2	.3	.0	.0	.0	.4
7	.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.3	7.9	.2	.2	.0	15.7	.2	2.9	1.6	.2	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.0	.0	.0	.0	2.5	.4	2.1	.0	.0	.0	.0	2.5
1-2	.0	.8	.3	.0	.0	.0	1.1	.0	1.5	.9	.0	.0	.0	2.4
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.3	.2	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.7	.4	.0	.0	.0	3.7	.4	3.6	2.2	.7	.2	.0	7.1

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0017 TATAR STRAIT N
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.8	4.9	.0	.0	.0	.0	5.7		1.3	2.7	.0	.0	.0	.0	4.0	
1-2	.0	7.6	4.3	.0	.0	.0	11.9		.4	2.9	1.6	.0	.0	.0	4.4	
3-4	.0	.8	4.4	.4	.0	.0	5.7		.0	.6	2.0	.2	.0	.0	2.9	
5-6	.0	.1	1.6	2.3	.2	.0	4.2		.0	.2	1.6	.1	.0	.0	1.9	
7	.0	.0	1.0	.4	.0	.0	1.4		.0	.0	.2	.3	.0	.0	.5	
8-9	.0	.0	.3	1.0	.1	.0	1.4		.0	.0	.0	.2	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.2	.0	.3		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	13.5	11.6	4.3	.5	.0	30.6		1.7	6.0	5.4	.8	.0	.0	14.0	

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.7	1.2	.0	.0	.0	.0	1.9		.4	1.9	.0	.0	.0	.0	2.3		85.1
1-2	.0	.7	.8	.0	.0	.0	1.4		.0	1.2	1.1	.0	.0	.0	2.3		
3-4	.0	.1	.0	.0	.0	.0	.1		.0	.0	.8	.0	.0	.0	.8		
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	.2		
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.7	2.0	.8	.0	.0	.0	3.5		.4	3.2	2.0	.0	.0	.0	5.6		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	20.4	19.2	.0	.0	.0	.0	39.5	569
1-2	.4	18.3	13.7	.0	.0	.0	32.3	
3-4	.0	1.9	12.3	1.1	.0	.0	15.3	
5-6	.0	.7	4.2	2.6	.2	.0	7.7	
7	.0	.0	1.4	.9	.2	.0	2.5	
8-9	.0	.0	.4	1.2	.2	.0	1.8	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.2	.2	.0	.4	
13-16	.0	.2	.0	.0	.2	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.7	40.2	32.0	6.2	.9	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	11.0	8.4	5.2	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	287	3
6-7	.0	1.1	2.7	2.3	1.3	.9	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	5
8-9	.0	.3	.4	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
10-11	.0	.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
12-13	.0	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
>13	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
INDEY	17.8	10.8	21.6	9.6	2.9	1.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	626	2
TOTAL	195	243	353	144	69	27	2	2	3	1	0	0	0	0	0	0	0	0	0	1041	3
PCT	18.7	23.5	33.9	13.8	6.6	2.6	.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AUGUST

AREA 0017 TATAR STRAIT N
50.6N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	9.3	6.2	4.2	.0	.0	.0	.0	19.3	3.6	.0	2.6	.0	.6	.0	74.0
NE	9.6	6.0	1.4	.0	.0	.0	.0	17.0	4.3	.4	4.6	.0	.0	.0	73.8
E	18.0	2.7	1.9	.0	.0	.0	.0	22.6	1.9	.7	1.7	.0	.0	.0	73.0
SE	10.1	1.0	2.6	.0	.0	.0	.0	13.7	1.0	.0	8.2	.0	1.0	.0	76.0
S	6.7	.6	5.3	.0	.0	.0	.0	12.6	1.4	.0	9.8	.3	.0	.0	76.0
SW	3.7	.2	1.9	.0	.0	.0	.0	5.8	.8	.0	13.3	.0	.0	.0	80.1
W	10.7	1.7	1.1	.0	.0	.0	.0	13.6	2.3	.0	5.6	.0	.0	.0	78.5
NW	8.3	5.2	7.7	.0	.0	.0	.0	21.0	3.4	.0	6.3	.0	.0	.0	69.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	1.8	.0	.0	.0	.0	2.7	1.8	.9	14.4	.0	.9	.0	79.3
TOT PCT	7.8	2.2	3.6	.0	.0	.0	.0	13.6	2.0	.2	8.1	.1	.3	.0	75.8
TOT OBS:	1185														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	5.9	2.9	2.1	.0	.0	.0	.0	10.9	1.4	.0	10.9	.0	.2	.0	76.5
06009	6.5	1.6	4.1	.0	.0	.0	.0	12.2	2.8	.0	6.9	.0	.4	.0	77.6
12015	10.7	2.5	3.9	.0	.0	.0	.0	16.9	3.1	.6	6.3	.3	.3	.0	72.5
18021	9.0	.5	5.8	.0	.0	.0	.0	15.3	.9	.0	5.3	.0	.0	.0	78.8
TOT PCT	7.9	2.1	3.6	.0	.0	.0	.0	13.6	2.1	.2	7.9	.1	.2	.0	75.9
TOT OBS:	1212														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	5.9	7.3	1.0	.1	.0		14.8	12.3	12.2	14.1	17.1	11.7	15.4	5.0	19.4	15.4	
NE	.4	2.8	2.4	.1	.0	.0		5.7	10.7	6.3	5.1	3.1	6.7	5.3	6.7	8.5	3.8	
E	1.0	4.1	2.6	.5	.0	.0		8.1	9.6	9.3	.0	3.9	1.7	9.3	5.8	12.7	5.8	
SE	.7	4.0	3.4	.2	.1	.0		8.5	10.4	7.9	7.7	7.0	11.7	6.8	4.2	14.6	15.4	
S	1.8	11.5	13.8	2.3	.2	.0		29.5	12.4	26.8	33.3	33.6	31.7	32.3	25.0	24.2	32.7	
SW	1.1	7.2	4.3	1.0	.0	.0		13.6	10.7	15.6	25.6	16.9	26.7	8.5	30.0	5.9	15.4	
W	.5	1.9	1.1	.2	.0	.0		3.7	9.3	4.6	7.7	3.2	5.0	3.2	3.3	2.9	.0	
NW	.8	2.5	3.1	.5	.0	.0		6.8	11.4	6.4	6.4	9.0	5.0	5.4	13.3	7.5	3.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.1							9.1	.0	10.8	.0	6.2	.0	13.9	6.7	4.3	7.7	
TOT OBS	189	475	451	69	5	0	1189		10.3	379	39	211	30	310	30	164	26	
TOT PCT	15.9	39.9	37.9	5.8	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	3.3	7.5	3.5	.5	.0		14.8	12.3	12.4	16.4	14.5	18.8	
NE	2.0	2.8	.9	.0	.0		5.7	10.7	6.2	3.5	5.4	7.9	
E	2.9	4.2	1.0	.0	.0		8.1	9.6	8.4	3.6	9.0	11.7	
SE	2.7	4.8	.8	.2	.0		8.5	10.4	7.9	7.6	6.5	14.7	
S	6.5	15.7	6.6	.7	.0		29.5	12.4	27.5	33.4	31.6	25.4	
SW	4.6	6.4	2.4	.2	.0		13.6	10.7	16.6	18.2	10.4	7.2	
W	1.5	1.7	.5	.0	.0		3.7	9.3	4.8	3.4	3.2	2.5	
NW	1.9	3.4	1.5	.0	.0		6.8	11.4	6.4	8.5	6.1	7.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	9.1						9.1	.0	9.8	5.4	13.2	4.7	
TOT OBS	411	534	205	19	0	1189		10.3	418	241	340	190	
TOT PCT	34.6	46.6	17.2	1.6	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1970-1974

AUGUST

AREA 0017 TATAR STRAIT N
50.6N 141.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	9.8	6.5	40.0	38.0	5.3	.5	.0	10.1	100.0	418
0600	5.4	7.1	39.4	42.7	4.6	.8	.0	11.1	100.0	241
1200	13.2	6.8	38.8	32.9	7.9	.3	.0	10.0	100.0	340
1800	4.7	7.4	42.6	40.5	4.7	.0	.0	10.6	100.0	190
TOT	108	81	475	451	69	5	0	10.3		1189
PCT	9.1	6.8	39.9	37.9	5.8	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.6	7.0	5.9		6.6
NE	1.0	.3	2.0	2.8		6.1
E	1.6	1.1	2.1	4.1		5.7
SE	1.4	.7	2.2	3.9		5.9
S	6.0	2.9	8.9	11.8		5.6
SW	2.3	1.4	3.8	4.1		5.4
W	1.8	.5	.4	1.3		4.1
NW	.8	.6	2.4	3.3		6.3
VAR	.0	.0	.0	.0		.0
CALM	2.6	1.2	3.0	3.9		5.0
TOT OBS	172	87	296	379	934	5.7
TOT PCT	18.4	9.3	31.7	40.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.4	.9	3.1	4.4	1.5	.1	.1	.1	3.3	
NE	.3	.0	.0	.4	1.4	1.4	.7	.0	.2	.0	1.6	
E	.4	.1	.3	.5	1.8	1.3	.7	.3	.0	.1	3.5	
SE	.3	.0	.0	.4	1.8	1.5	.4	.1	.1	.0	3.3	
S	2.7	.3	.7	1.5	3.3	5.3	2.7	.6	.2	.5	11.7	
SW	1.3	.0	.1	.3	1.5	1.9	.8	.2	.0	.2	5.2	
W	.2	.1	.1	.2	.3	.5	.1	.1	.0	.1	2.3	
NW	.3	.0	.1	.4	2.0	1.8	.1	.1	.1	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.0	.0	.2	1.0	1.7	.4	.3	.3	.2	4.7	
TOT OBS	66	5	17	45	152	185	70	21	10	11	352	934
TOT PCT	7.1	.5	1.8	4.8	16.3	19.8	7.5	2.2	1.1	1.2	37.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				OR			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	2.1	2.3	2.4	2.5	2.5	2.5	2.5	2.5
>3000	4.3	4.7	4.8	5.0	5.0	5.0	5.0	5.0
>3500	9.6	11.8	12.0	12.2	12.2	12.2	12.2	12.2
>2000	21.5	29.3	30.6	30.9	31.4	31.6	31.7	31.7
>1000	28.6	41.9	46.2	46.9	47.6	48.1	48.2	48.2
>600	29.6	45.1	50.5	51.3	52.1	52.7	52.8	52.8
>300	29.9	45.9	51.5	53.0	53.7	54.4	54.5	54.5
>150	30.0	46.0	51.7	53.5	54.3	54.9	55.0	55.0
>0	30.5	46.7	53.6	55.8	56.8	59.4	61.6	62.2
TOTAL	289	443	509	530	539	564	585	590

TOTAL NUMBER OF OBS: 949

PCT FREQ NH <5/8: 37.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.5	5.6	8.1	5.4	4.9	6.4	8.5	10.4	31.6	6.7
										1006

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

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50.0N 141.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	.1	*	.0	*	.0	.0	.4	
	NO PCP	.1	.1	.1	.1	2.0	1.0	.1	.3	.0	.8	4.7	
	TOT %	.3	.1	.1	.2	2.2	1.1	.1	.3	.0	.8	5.2	
1/2<1	PCP	.2	.0	.1	.1	.3	.0	*	*	.0	.0	.7	
	NO PCP	.0	.0	.1	.0	.0	.3	.0	.1	.0	.1	.5	
	TOT %	.2	.0	.2	.1	.3	.3	*	.1	.0	.1	1.2	
1<2	PCP	.3	.2	.1	.1	.8	.0	.0	.1	.0	.1	1.6	
	NO PCP	.0	.1	.1	.1	.1	.1	.0	.0	.0	.2	.7	
	TOT %	.3	.3	.2	.2	.8	.1	.0	.1	.0	.3	2.3	
2<5	PCP	.8	.3	.7	.3	1.2	.3	.2	.3	.0	.1	4.6	
	NO PCP	.7	.2	.0	.6	1.6	.4	.1	.4	.0	.3	4.3	
	TOT %	1.6	.4	.7	1.0	2.8	.8	.3	1.0	.0	.4	9.0	
5<10	PCP	1.3	.5	1.0	.3	1.2	.3	.2	.7	.0	.1	3.7	
	NO PCP	2.4	1.8	.7	1.4	4.4	2.6	.7	.5	.0	1.4	13.9	
	TOT %	3.7	2.3	1.7	1.7	5.6	2.9	.9	1.3	.0	1.5	21.6	
10+	PCP	.0	.1	.1	.2	.2	.1	.0	.0	.0	.0	.6	
	NO PCP	8.7	2.8	5.6	4.9	17.5	8.0	2.4	4.1	.0	6.3	60.3	
	TOT %	8.7	2.9	5.7	5.0	17.7	8.1	2.4	4.1	.0	6.3	60.9	
TOT OBS													1183
TOT PCT		14.7	6.0	8.7	8.2	29.4	13.2	3.7	6.8	.0	9.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.1	.0	.1	.0	.8	1.1	
	4-10	.2	*	.1	*	1.0	.6	.1	.2	.0		2.2	
	11-21	.1	.0	.1	.0	1.1	.3	.0	.1	.0		1.7	
	22+	.0	.0	.0	.1	*	.1	.0	.0	.0		.3	
	TOT %	.3	.1	.2	.1	2.2	1.1	.1	.4	.0	.8	5.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.2	.3	
	4-10	.0	.0	.0	.1	.1	.3	.0	.1	.0		.5	
	11-21	.2	.0	.1	.0	*	*	.0	.0	.0		.4	
	22+	.0	.0	.1	.0	.1	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.2	.1	.2	.3	*	.1	.0	.2	1.3	
1<2	0-3	.1	.0	.1	.0	.4	.0	.0	.0	.0	.3	.8	
	4-10	.1	*	.1	.0	.2	.1	.0	.0	.0		.4	
	11-21	.2	.3	.1	.1	.2	.0	.0	.1	.0		.9	
	22+	.1	*	.0	.0	.2	.1	.0	.0	.0		.4	
	TOT %	.4	.3	.2	.1	.9	.2	.0	.1	.0	.3	2.5	
2<5	0-3	.1	.1	*	*	.3	*	.2	.0	.0	.4	1.1	
	4-10	.3	.2	.2	.5	.9	.5	.2	.2	.0		2.8	
	11-21	.9	.3	.4	.4	1.4	.3	.0	.9	.0		4.5	
	22+	.4	.0	.1	*	.2	.0	.0	.1	.0		.8	
	TOT %	1.6	.5	.7	1.0	2.7	.8	.3	1.1	.0	.4	9.1	
5<10	0-3	.1	.1	.1	.1	.3	.3	.0	.2	.0	1.5	2.7	
	4-10	1.2	1.1	.6	.7	1.8	1.6	.3	.3	.0		7.9	
	11-21	1.8	.9	.5	.7	2.7	.8	.3	.5	.0		8.2	
	22+	.3	.1	.3	.2	.8	.2	.0	*	.0		2.0	
	TOT %	3.5	2.2	1.5	1.7	5.6	2.9	.8	1.1	.0	1.5	20.9	
10+	0-3	.3	.2	.8	.6	.9	.6	.1	.4	.0	6.2	10.0	
	4-10	4.0	1.5	3.4	2.4	7.5	4.3	1.3	1.8	.0		26.0	
	11-21	4.1	1.0	1.5	2.0	8.4	2.9	.8	1.6	.0		22.3	
	22+	.4	*	.0	*	1.1	.5	.2	.4	.0		2.6	
	TOT %	8.7	2.7	5.8	5.0	18.0	8.2	2.4	4.1	.0	6.2	61.0	
TOT OBS													1141
TOT PCT		14.7	5.8	8.5	8.0	29.6	13.6	3.6	6.9	.0	9.3	100.0	

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PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

TABLE 10

AREA 0017 TATAR STRAIT N
50.6N 141.7EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	6.7	.0	2.5	3.1	16.0	23.0	9.0	1.7	1.4	.8	64.3	35.7	356
06609	4.5	.5	2.5	3.0	17.3	15.8	5.0	1.5	1.0	1.0	52.0	48.0	202
12615	10.7	1.1	.7	6.6	14.0	15.8	7.4	2.9	2.2	1.8	63.2	36.8	272
18621	5.3	.8	.8	7.5	19.5	22.6	6.8	4.5	.0	.8	68.4	31.6	133
TOT	69	5	17	45	156	187	71	23	13	11	597	366	963
PCT	7.2	.5	1.8	4.7	16.2	19.4	7.4	2.4	1.3	1.1	62.0	38.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	6.8	1.9	1.6	8.9	21.6	59.1	423
06609	4.4	.8	1.6	7.2	16.9	69.1	249
12615	3.8	1.4	4.1	12.6	23.1	54.9	364
18621	5.7	.5	4.1	7.7	22.7	59.3	194
TOT	65	16	34	117	262	738	1232
PCT	5.3	1.3	2.8	9.5	21.3	59.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00603	6.8	11.6	21.0	45.0	34.0	353
06609	4.5	8.5	18.0	36.5	45.5	200
12615	10.5	13.5	25.9	39.1	39.0	266
18621	5.4	7.7	20.8	47.7	31.5	130
TOT	68	104	206	398	345	949
PCT	7.2	11.0	21.7	41.9	36.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.4	.4	.0	.0	.0	2	.8
65/69	.0	.0	.0	.4	2.5	2.1	2.1	.0	17	7.1
60/64	.0	.0	.0	.4	5.0	8.3	21.3	16.7	124	51.7
55/59	.0	.0	.0	1.3	1.3	7.5	12.9	12.1	84	35.0
50/54	.0	.0	.0	.0	.4	1.3	1.3	2.1	12	5.0
45/49	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
TOTAL	0	0	0	6	23	46	91	74	240	100.0
PCT	.0	.0	.0	2.5	9.6	19.2	37.9	30.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0
65/69	.7	.1	1.1	1.4	1.7	1.3	.0	.4	.0	.4
60/64	5.1	2.5	6.7	5.4	18.5	7.3	2.1	2.8	.0	1.3
55/59	5.1	3.1	6.5	5.9	8.3	2.1	.4	3.1	.0	.4
50/54	.0	.4	2.3	1.5	.0	.4	.0	.4	.0	.0
45/49	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
TOTAL	10.9	6.1	16.6	14.6	28.5	11.0	2.9	7.2	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	81	75	72	63	56	54	50	62.8	441
06609	83	76	72	63	57	53	43	63.9	252
12615	79	70	67	61	54	50	48	61.1	372
18621	75	73	66	59	52	49	49	59.0	201
TOT	83	75	70	62	59	50	43	61.9	1266

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	6.9	12.1	29.3	29.3	22.4	80	58
06609	.0	3.3	21.7	10.0	41.7	23.3	81	60
12615	.0	.0	1.5	19.7	42.4	36.4	86	66
18621	.0	.0	3.6	17.9	37.5	41.1	87	56
TOT	0	6	23	46	91	74	84	240

AUGUST

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
50.6N 141.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	45	49	53	57	61	65	69	73	77	81	TOT	#	NO
TMP DIF	48	52	56	60	64	68	72	76	80	84		FOG	FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.2
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	2	.0	.2
17/19	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	4	.1	.3
14/16	.0	.0	.0	.2	.2	.3	.1	.5	.3	.0	16	.0	1.6
11/13	.0	.0	.0	.1	.3	.3	.3	.1	.0	.0	11	.0	1.1
9/10	.0	.0	.1	.2	.3	.8	.5	.3	.0	.0	22	.1	2.1
7/8	.0	.0	.1	.1	.5	1.6	.8	.5	.0	.0	36	.3	3.3
6	.0	.0	.1	.2	.3	1.3	.5	.1	.0	.0	25	.1	2.4
5	.0	.1	.6	1.0	1.6	2.3	.9	.2	.0	.0	67	.9	5.7
4	.0	.1	.2	.7	2.6	3.6	.9	.0	.0	.0	81	.7	7.3
3	.0	.0	.0	.7	3.1	1.9	.3	.1	.0	.0	61	.7	5.4
2	.0	.1	.0	1.3	6.6	2.7	.1	.0	.0	.0	109	1.0	9.8
1	.0	.1	.1	1.9	2.9	1.3	.0	.0	.0	.0	63	.6	5.6
0	.1	.1	.6	3.5	8.1	.9	.1	.0	.0	.0	135	.6	12.8
-1	.0	.0	.3	2.1	4.0	.3	.0	.0	.0	.0	67	1.0	5.6
-2	.0	.0	.5	5.2	4.6	.2	.0	.0	.0	.0	105	.6	9.8
-3	.0	.1	.5	2.2	1.2	.0	.0	.0	.0	.0	40	.3	3.7
-4	.0	.0	.8	3.8	1.2	.0	.0	.0	.0	.0	58	.3	5.5
-5	.0	.1	1.2	2.3	.3	.0	.0	.0	.0	.0	39	.0	3.9
-6	.0	.0	.3	.7	.2	.0	.0	.0	.0	.0	12	.1	1.1
-7/-8	.0	.4	1.3	1.1	.1	.0	.0	.0	.0	.0	29	.2	2.7
-9/-10	.0	1.0	.8	.3	.0	.0	.0	.0	.0	.0	21	.1	2.0
-11/-13	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	1	24	76	276	385	46	18	.3	.2	1009	7.6	92.4	
PCT	.1	2.4	7.5	27.4	38.2	17.6	4.6	1.8	.3	.2	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	3.0	.3	.0	.0	.0	3.8	.3	1.0	.0	.0	.0	.0	1.3
1-2	.0	2.3	3.3	.0	.0	.0	5.7	.0	1.7	2.4	.0	.0	.0	4.1
3-4	.0	.6	3.6	.3	.0	.0	4.6	.0	*	1.0	.2	.0	.0	1.3
5-6	.0	.0	1.7	.2	.1	.0	2.0	.0	.0	.3	.0	*	.0	.3
7	.0	.0	1.0	.5	.0	.0	1.5	.0	.0	.2	*	.0	.0	.2
8-9	.0	.0	.3	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.9	10.3	1.4	.1	.0	18.3	.3	2.7	4.0	.3	*	.0	7.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.2	.0	.0	.0	1.4	.0	.6	.2	.0	.0	.0	.8
1-2	.0	.8	1.9	.0	.0	.0	2.7	.3	1.1	1.1	.0	.0	.0	2.5
3-4	.0	.3	.7	.5	.0	.0	1.5	.0	.0	1.6	*	.0	.0	1.7
5-6	.0	.0	.1	.2	.0	.0	.3	.0	*	*	.3	.2	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.7	2.9	.6	.0	.0	5.8	.3	1.8	3.0	.4	.2	.0	5.7

PERIOD: (OVER-ALL) 1963-1974

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AREA 0017 TATAR STRAIT N
50.0N 141.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.2	2.8	.2	.0	.0	.0	4.2	.5	1.7	.0	.0	.0	.0	2.2	
1-2	.3	4.4	5.8	.0	.0	.0	10.5	.1	2.5	1.7	.0	.0	.0	4.3	
3-4	.0	1.4	6.2	.3	.0	.0	7.8	.0	.7	1.6	.7	.0	.0	3.0	
5-6	.0	.1	3.6	.7	.0	.0	4.4	.0	.2	.5	.3	.0	.0	1.0	
7	.0	.2	.9	1.1	.0	.0	2.2	.0	.0	.2	.4	.0	.0	.6	
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.3	*	.0	.0	.4	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	8.9	16.9	2.3	.0	.0	29.6	.6	5.1	4.3	1.5	.0	.0	11.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	1.5	.2	.0	.0	.0	1.7	
1-2	.1	1.1	.8	.0	.0	.0	2.0	.2	1.0	1.4	.0	.0	.0	2.5	
3-4	.0	.1	.6	.2	.0	.0	.9	.0	*	.7	.0	.0	.0	.7	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.2	.6	.0	.0	.0	.8	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	.2	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.9	1.7	.2	.0	.0	3.9	.2	2.7	1.6	.2	.0	.0	6.7	88.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.0	12.0	1.0	.0	.0	.0	27.1	
1-2	1.2	14.9	18.3	.0	.0	.0	34.3	
3-4	.0	3.2	16.1	2.2	.0	.0	21.5	
5-6	.0	.5	6.9	1.7	.3	.0	9.5	
7	.0	.2	2.9	2.2	.0	.0	5.2	
8-9	.0	.0	1.4	.3	.0	.0	1.7	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.2	.2	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.2	30.8	46.7	6.9	.3	.0	100.0	591

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	10.6	9.3	5.5	2.1	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	287	3
6-7	.0	.8	2.1	2.0	1.5	.6	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
8-9	.0	.1	.4	.8	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
10-11	.0	.9	.1	.3	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
12-13	.0	.0	.9	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
>13	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	11.9	11.4	23.3	6.5	3.6	1.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	594	3
TOTAL	124	240	365	155	80	34	6	3	2	2	0	0	0	0	0	0	0	0	0	1011	3
PCT	12.3	23.7	36.1	15.3	7.9	3.4	.6	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974AREA 0017 TATAR STRAIT N
50.3N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	11.7	4.1	1.2	.0	.7	.0	.0	17.0	2.3	.0	.7	.0	.0	.0	80.1
NE	15.7	2.0	5.3	.0	.0	.0	.0	22.0	6.3	.0	.0	.0	.0	.0	71.7
E	8.6	.9	.7	.0	.0	.0	.0	10.2	5.6	.0	.0	.0	.0	.0	84.3
SE	8.8	2.0	2.7	.0	.0	.0	.0	13.5	3.0	.6	1.3	.0	.0	.0	81.6
S	6.7	1.8	.6	.0	.0	.0	.0	9.1	.8	.3	1.8	.0	.3	.0	88.0
SW	3.4	1.5	.8	.0	.0	.0	.0	5.6	2.1	1.2	3.2	.0	.0	.0	87.8
W	5.2	4.9	3.4	.0	.0	.0	.0	13.5	3.4	.0	2.9	.0	.0	.0	80.6
NW	7.5	3.3	.9	.0	.0	.0	.0	11.8	1.6	.0	.0	.0	.9	.0	85.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	2.2	.0	.0	.0	.0	.0	6.7	2.2	.0	1.1	.0	.0	.0	89.9
TOT PCT	7.8	2.4	1.5	.0	.1	.0	.0	11.6	2.6	.3	1.3	.0	.2	.0	84.1
TOT OBS:	1270														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	7.3	2.2	1.3	.0	.0	.0	.0	10.6	1.5	.2	1.8	.0	.4	.0	85.7
06009	6.3	1.6	1.2	.0	.0	.0	.0	9.1	4.0	.0	2.4	.0	.0	.0	84.6
12015	6.9	1.8	2.7	.0	.3	.0	.0	11.4	3.0	.6	.9	.0	.0	.0	84.1
18021	10.3	3.8	1.1	.0	.0	.0	.0	15.3	3.1	.4	.8	.0	.0	.0	80.5
TOT PCT TOT OBS:	7.6 1302	2.3	1.6	.0	.1	.0	.0	11.4	2.7	.3	1.5	.0	.2	.0	84.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	4.1	4.6	2.7	.1	.0		12.0	14.9		10.6	22.7	14.8	22.6	7.6	17.3	8.9	20.0
NE	.7	3.9	3.0	.7	.0	.0		8.2	10.8		7.3	10.6	8.0	14.2	8.5	3.8	7.0	11.8
E	.5	4.8	2.1	.6	.0	.0		7.9	9.8		8.9	8.3	4.6	4.7	8.7	19.2	6.1	12.7
SE	1.2	6.1	4.1	1.0	.0	.0		12.4	10.6		9.1	8.0	7.5	14.2	12.8	12.5	21.6	19.1
S	1.2	6.9	12.7	3.5	.2	.0		24.5	14.3		25.3	14.8	35.5	8.0	25.1	18.3	23.2	13.6
SW	1.0	5.6	4.7	1.2	.1	.0		12.5	11.7		15.7	16.3	12.6	8.5	11.1	9.6	10.5	7.3
W	.5	2.1	3.5	.6	.1	.0		6.7	13.4		7.7	4.9	3.3	5.7	7.4	5.8	7.2	10.0
NW	.5	2.6	4.9	1.3	.1	.0		9.4	14.4		5.4	12.9	10.7	16.5	9.2	13.5	11.2	5.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0		8.9	1.5	3.1	5.7	9.6	.0	4.4	.0
TOT OBS	156	452	496	146	7	0	1257		12.0		369	66	191	53	292	26	205	55
TOT PCT	12.4	36.0	39.5	11.6	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	06	12	18
N	2.2	5.0	4.0	.7	.1		12.0	14.9		12.5	16.5	8.4	11.3
NE	2.5	4.6	.7	.4	.0		8.2	10.8		7.8	9.3	8.1	8.0
E	2.7	4.4	.8	.1	.0		7.9	9.8		8.8	4.6	9.6	7.5
SE	4.1	6.3	1.7	.3	.0		12.4	10.6		9.0	8.9	12.7	21.1
S	4.0	12.4	7.0	1.0	.1		24.5	14.3		23.7	29.5	24.5	21.2
SW	3.8	5.9	2.6	.3	.0		12.5	11.7		15.8	11.7	11.0	9.8
W	1.7	3.1	1.5	.4	.0		6.7	13.4		7.2	3.6	7.2	7.8
NW	1.6	4.4	2.8	.5	.0		9.4	14.4		7.4	12.0	9.6	10.0
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	6.4						6.4	.0		7.8	3.7	8.8	3.5
TOT OBS	363	581	264	47	2	1257		12.0		435	244	318	260
TOT PCT	28.9	46.2	21.0	3.7	.2		100.0			100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
50.5N 141.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	7.8	6.7	34.7	40.7	9.2	.9	.0	.0	11.6	100.0	435
06009	3.7	4.9	35.2	38.5	17.6	.0	.0	.0	13.0	100.0	244
12013	8.8	4.4	38.1	37.4	10.7	.6	.0	.0	11.5	100.0	318
18021	3.3	8.1	36.2	40.8	11.2	.4	.0	.0	12.3	100.0	260
TOT	80	76	452	496	146	7	0	12.0			1297
PCT	6.4	6.0	36.0	39.5	11.6	.6	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.1	.8	4.9	3.6		6.0
NE	.8	.4	2.2	3.5		6.4
E	1.7	1.2	2.2	3.2		5.3
SE	3.4	1.0	3.3	3.9		4.9
S	9.5	2.4	7.5	8.1		4.6
SW	5.7	1.3	4.6	2.4		4.0
W	2.0	.7	1.7	2.1		4.9
NW	2.3	1.0	2.1	2.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.2	2.2	1.3		4.0
TOT OBS	276	94	294	289	953	4.9
TOT PCT	29.1	9.8	30.8	30.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.3	2.7	3.0	1.0	.1	.1	.0	3.2	
NE	.0	.0	.0	.1	1.2	2.1	.2	.7	.0	.0	2.6	
E	.2	.0	.0	.0	1.3	1.9	.5	.3	.1	.1	4.0	
SE	.3	.0	.4	.2	1.8	2.4	.4	.0	.1	.2	5.8	
S	.3	.1	.2	.7	3.1	3.3	1.8	.9	.1	.7	16.3	
SW	.2	.0	.3	.2	1.9	2.1	.7	.7	.0	.1	7.7	
W	.0	.0	.0	.0	1.3	1.4	.3	.0	.0	.1	3.5	
NW	.3	.0	.1	.2	1.0	1.5	.6	.0	.1	.*	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	1.0	.6	.6	.1	.0	.2	4.3	
TOT OBS	14	1	11	18	146	174	58	26	5	14	488	955
TOT PCT	1.5	.1	1.2	1.9	15.3	18.2	6.1	2.7	.5	1.5	51.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
> OR >6500	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
> OR >5000	3.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
> OR >3500	8.4	10.5	10.7	10.7	10.7	10.7	10.7	10.7
> OR >2000	19.8	26.9	28.7	28.7	28.9	28.9	28.9	28.9
> OR >1000	27.4	40.6	43.7	44.0	44.3	44.5	44.5	44.5
> OR >600	28.0	42.1	45.5	45.9	46.2	46.4	46.4	46.4
> OR >300	28.9	43.2	46.8	47.1	47.4	47.6	47.6	47.6
> OR >150	28.9	43.2	46.9	47.2	47.5	47.7	47.7	47.7
> OR >0	29.0	43.9	47.6	48.0	48.4	48.6	48.9	49.1
TOTAL	283	429	465	469	473	475	478	480

TOTAL NUMBER OF OBS: 977

PCT FREQ NM <5/8: 50.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.2	8.3	10.3	4.7	4.5	6.0	11.4	5.9	26.4	1.3	1042

SEPTEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
50.5N 141.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.0	*	*	.0	.0	.0	.2	
	NO PCP	.1	.0	.0	.1	.2	.1	.0	*	.0	.1	.5	
	TOT %	.1	.0	.1	.2	.2	.1	*	*	.0	.1	.7	
1/2<1	PCP	.2	.0	*	.1	.0	.0	.1	.1	.0	.0	.5	
	NO PCP	.1	.0	.0	.0	.1	*	.0	.0	.0	.0	.2	
	TOT %	.2	.0	*	.1	.1	*	.1	.1	.0	.0	.6	
1<2	PCP	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.2	.1	.2	.0	.0	.0	.0	.0	.6	
2<5	PCP	.4	.3	*	.4	.8	*	.3	.2	.0	.2	2.8	
	NO PCP	.3	.2	.3	.3	.3	.6	.0	.1	.0	.0	2.0	
	TOT %	.7	.4	.3	.7	1.2	.6	.3	.3	.0	.2	4.8	
5<10	PCP	1.1	1.2	.4	.9	1.0	.5	.3	.6	.0	.2	6.1	
	NO PCP	1.7	.7	1.5	2.1	3.2	2.1	.9	1.0	.0	.8	13.8	
	TOT %	2.8	1.8	1.9	2.9	4.2	2.6	1.2	1.6	.0	.9	19.9	
10+	PCP	.2	.3	.2	.2	.3	.2	.1	*	.0	.1	1.6	
	NO PCP	7.8	5.1	5.9	8.4	18.5	9.5	4.7	6.3	.0	5.7	71.7	
	TOT %	8.0	5.4	6.0	8.5	18.8	9.7	4.8	6.4	.0	5.8	73.3	
TOT OBS													1269
TOT PCT		12.0	7.8	8.5	12.5	24.5	12.9	6.4	8.4	.0	7.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.2	.2	.0	.0	.1	.5	
	4-10	.1	.0	.1	.1	.0	.1	.1	.4	.0		.9	
	11-21	.1	.0	.0	.0	.0	*	.2	.4	.0		.6	
	22+	.0	.0	.0	.1	.0	.0	.0	.2	.0		.3	
	TOT %	.1	.0	.1	.2	.1	.3	.4	1.1	.0	.1	2.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	11-21	.1	.0	.0	.1	.0	.0	.1	*	.0		.2	
	22+	.2	.0	*	*	.1	*	.0	.0	.0		.4	
	TOT %	.4	.0	*	.1	.1	*	.1	.1	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.1	.1	.0	.0	.0	.0		.2	
	22+	.1	.1	.1	.0	.1	.0	.0	.0	.0		.3	
	TOT %	.1	.3	.2	.1	.2	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.3	
	4-10	.2	.2	.2	.4	.4	.3	.2	.1	.0		1.9	
	11-21	.3	.2	.0	.2	.6	.2	.1	.2	.0		2.0	
	22+	.3	*	.2	.1	.2	.0	.1	.1	.0		1.1	
	TOT %	.8	.4	.3	.8	1.3	.6	.4	.4	.0	.2	5.4	
5<10	0-3	.0	.1	.1	.2	.1	.0	.1	.1	.0	1.0	1.6	
	4-10	.8	.6	.8	1.2	1.0	1.1	.3	.3	.0		6.1	
	11-21	1.3	1.0	.8	1.1	1.7	.6	.8	1.0	.0		8.3	
	22+	.8	.2	.1	.3	1.3	.5	.1	.2	.0		3.5	
	TOT %	2.8	1.9	1.7	2.8	4.1	2.2	1.3	1.6	.0	1.0	19.5	
10+	0-3	.4	.6	.4	1.0	1.1	.8	.2	.4	.0	5.2	10.2	
	4-10	3.0	2.8	3.8	4.5	5.5	4.0	1.6	1.5	.0		26.6	
	11-21	2.8	1.7	1.3	2.5	10.0	3.6	2.4	3.4	.0		27.7	
	22+	1.4	.4	.2	.5	1.9	.9	.4	.9	.0		6.6	
	TOT %	7.6	5.5	5.7	8.4	18.5	9.3	4.7	6.2	.0	5.2	71.2	
TOT OBS													1231
TOT PCT		12.0	8.1	8.0	12.5	24.2	12.4	6.8	9.5	.0	6.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
50.5N 141.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.1	.0	.8	2.7	14.8	21.5	5.1	1.9	.5	2.7	51.1	48.9	372
06009	.5	.0	1.5	1.0	16.5	18.9	10.2	1.0	.5	.0	50.0	50.0	206
12015	2.4	.4	1.2	.0	13.4	14.6	4.0	3.6	.8	1.6	42.1	57.9	247
18021	1.8	.0	1.8	3.6	19.6	13.7	5.4	4.8	.0	.6	51.2	48.8	168
TOT	14	1	12	18	155	178	59	26	5	15	483	510	993
PCT	1.4	.1	1.2	1.8	15.6	17.9	5.9	2.6	.5	1.5	48.6	51.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.7	.4	.6	3.5	16.0	77.8	463
06009	2.7	.4	.8	5.3	17.6	73.3	262
12015	1.2	1.2	.9	5.6	25.4	65.7	338
18021	4.1	1.1	.7	8.1	21.8	64.2	271
TOT	30	10	10	71	265	948	1334
PCT	2.2	.7	.7	5.3	19.9	71.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.1	1.9	7.6	44.0	48.4	368
06009	.5	2.0	7.9	44.3	47.8	203
12015	2.5	4.9	9.5	34.6	56.0	243
18021	1.8	5.5	16.0	37.4	46.6	163
TOT	14	32	93	397	487	977
PCT	1.4	3.3	9.5	40.6	49.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.3	.0	.9	.3	.0	5	1.4
60/64	.0	.3	.0	.9	1.4	5.5	8.6	4.6	74	21.3
55/59	.0	.6	.6	.9	1.7	7.8	20.7	9.5	145	41.7
50/54	.0	.0	.3	1.1	2.0	4.9	9.8	5.2	81	23.3
45/49	.0	.0	.0	.3	4.0	1.7	1.1	1.7	31	8.9
40/44	.0	.0	.0	.0	1.7	.6	.3	.9	12	3.4
TOTAL	0	3	3	12	38	74	142	76	348	100.0
PCT	.0	.9	.9	3.4	10.9	21.3	40.8	21.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.0	.3	.6	.0	.0	.0	.3
1.4	.0	.3	2.9	12.5	2.4	.6	.6	.0	.6
5.0	3.7	2.7	7.5	14.4	6.3	1.3	.4	.0	.6
3.7	6.3	3.8	1.4	2.8	1.2	1.1	2.2	.0	.9
.7	1.1	1.4	.9	1.1	1.0	.9	1.7	.0	.0
.3	.0	.5	.4	.0	.0	.6	1.7	.0	.0
11.4	11.1	8.6	13.0	31.0	11.5	4.5	6.5	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	73	66	57	48	44	39	57.1	472
06009	77	74	68	58	45	43	41	57.6	264
12015	73	67	63	57	46	39	33	55.8	341
18021	75	66	61	54	43	37	31	53.7	273
TOT	77	72	65	57	46	41	31	56.2	1350

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.4	10.0	28.9	46.7	10.0	79	90
06009	.0	10.3	12.6	19.5	37.9	19.5	79	87
12015	.0	2.3	10.3	20.7	41.4	25.3	82	87
18021	.0	3.6	10.7	15.5	36.9	33.3	84	84
TOT	0	18	38	74	142	76	81	348

SEPTEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0017 TAYAR STRAIT N
50.5N 141.7E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N PDG	NO PDG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	3	.0	.3
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	2	.0	.2
14/16	.0	.0	.0	.1	.2	.0	.0	.1	.2	.0	.0	6	.0	.5
11/13	.0	.0	.1	.1	.0	.2	.1	.4	.1	.0	.2	12	.1	1.0
9/10	.0	.0	.1	.1	.1	.3	.3	.3	.1	.0	.0	16	.0	1.4
7/8	.0	.0	.1	.1	.2	.7	.8	.3	.2	.0	.0	26	.1	2.2
6	.0	.0	.0	.0	.1	.5	.4	.2	.0	.0	.0	14	.1	1.2
5	.0	.0	.0	.4	.8	.5	1.1	.4	.1	.0	.0	38	.1	3.3
4	.0	.1	.2	.3	.8	1.3	2.3	.7	.0	.0	.0	63	.1	5.6
3	.0	.0	.0	.1	.4	1.5	.8	.2	.0	.0	.0	34	.1	3.0
2	.2	.1	.3	.4	1.0	3.9	2.8	.4	.1	.0	.0	101	.0	9.1
1	.0	.0	.0	.2	1.2	2.5	.9	.0	.0	.0	.0	53	.0	4.8
0	.1	.3	.5	1.1	2.5	5.5	3.9	.1	.0	.0	.0	156	.3	13.7
-1	.0	.0	.0	.6	1.8	1.7	.7	.1	.0	.0	.0	55	.2	4.7
-2	.0	.1	.6	1.9	4.6	5.6	.8	.2	.0	.0	.0	153	.0	13.7
-3	.0	.0	.3	.7	1.6	1.4	.3	.0	.0	.0	.0	48	.3	4.0
-4	.0	.0	.5	1.3	3.5	2.3	.5	.0	.0	.0	.0	91	.1	8.1
-5	.0	.0	.8	2.3	3.0	1.3	.0	.0	.0	.0	.0	82	.2	7.2
-6	.0	.1	.3	1.1	.8	.3	.0	.0	.0	.0	.0	28	.1	2.4
-7/-8	.0	.2	1.5	2.3	.8	.4	.0	.0	.0	.0	.0	58	.1	5.1
-9/-10	.2	.4	1.6	1.2	.2	.0	.0	.0	.0	.0	.0	41	.0	3.7
-11/-13	.2	.8	.4	.6	.1	.1	.0	.0	.0	.0	.0	24	.0	2.2
-14/-16	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	6	.0	.5
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	9	24	84	166	264	336	176	36	10	4	5	1114	19	1095
PCT	.8	2.2	7.5	14.9	23.7	30.2	15.8	3.2	.9	.4	.4	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.5	1.1	.0	.0	.0	.0	.0	1.6
1-2	.0	.8	1.1	.0	.0	.0	2.0	.0	.7	1.0	.0	.0	.0	.0	1.7
3-4	.0	.4	2.1	.3	.0	.0	2.7	.0	.4	.0	.0	.0	.0	.0	.9
5-6	.0	.1	1.0	1.7	.0	.0	2.8	.0	.2	.0	.0	.0	.0	.0	.3
7	.0	.0	.1	.5	.0	.0	.6	.0	.2	.2	.2	.0	.0	.0	.6
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	4.7	3.3	.0	.0	10.4	.5	2.5	1.2	.8	.0	.0	.0	5.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.8	.2	.0	.0	.0	2.1	.4	3.4	.0	.0	.0	.0	.0	3.8
1-2	.0	2.3	1.2	.0	.0	.0	3.5	.0	1.9	2.2	.0	.0	.0	.0	4.1
3-4	.0	.5	.2	.2	.0	.0	.9	.0	.3	.7	.0	.0	.0	.0	1.0
5-6	.0	.0	.1	.1	.0	.0	.3	.0	.2	.4	.5	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	1.7	.4	.0	.0	6.9	.4	5.8	3.4	.8	.0	.0	.0	10.4

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.2	2.2	.4	.0	.0	.0	3.8	.4	2.4	.2	.0	.0	.0	3.0	
1-2	.2	2.8	4.0	.0	.0	.0	7.0	.0	2.0	1.2	.0	.0	.0	3.2	
3-4	.0	1.6	4.7	.3	.0	.0	6.6	.0	.6	2.8	.4	.0	.0	3.7	
5-6	.0	.3	2.3	1.1	.0	.0	3.7	.0	.2	.8	.4	.0	.0	1.4	
7	.0	.0	.2	1.2	.0	.0	1.4	.0	.4	.3	.7	.2	.0	1.5	
8-9	.0	.0	.3	.3	.1	.0	.7	.0	.0	.2	.4	*	.0	.6	
10-11	.0	.2	.0	.5	.2	.0	.9	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	7.1	11.8	4.1	.5	.0	24.9	.4	5.5	5.5	2.2	.2	.0	13.8	

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.6	.6	.1	.0	.0	.0	1.3	.3	1.1	.0	.0	.0	.0	1.4		
1-2	.0	1.2	1.7	.0	.0	.0	2.9	.0	.9	2.7	.0	.0	.0	3.6		
3-4	.0	.0	1.8	.5	.0	.0	2.3	.0	.2	2.4	.2	.0	.0	2.8		
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.2	1.7	.2	.0	.0	2.1		
7	.0	.0	.6	.3	.1	.0	1.0	.0	.0	.4	.6	*	.0	1.0		
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.6	1.8	4.9	1.0	.1	.0	8.5	.3	2.3	7.3	1.4	*	.0	11.3	91.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.3	13.7	.9	.0	.0	.0	26.9	
1-2	.2	12.7	15.1	.0	.0	.0	28.0	
3-4	.0	3.9	14.6	2.5	.0	.0	21.0	
5-6	.0	1.2	7.0	4.0	.0	.0	12.3	
7	.0	.5	1.8	3.7	.4	.0	6.3	
8-9	.0	.0	.9	1.6	.2	.0	2.6	
10-11	.0	.2	.2	1.1	.2	.0	1.6	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.4	.2	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.5	32.2	40.5	13.9	.9	.0	100.0	568

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	7.9	9.5	7.9	2.8	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	4
6-7	.0	1.3	1.4	1.2	1.5	.9	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	5
8-9	.0	.1	.1	.8	.5	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
10-11	.0	.9	.0	.2	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
12-13	.0	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
>13	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	6	14
INDEX	11.6	8.9	20.0	10.4	5.5	1.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	619	3
TOTAL	130	202	332	218	111	37	14	6	4	0	0	1	0	1	0	0	0	0	0	1056	4
PCT	12.3	19.1	31.4	20.6	10.5	3.5	1.3	.6	.4	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	100.0	

OCTOBLA

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1972-1974AREA 0017 TATAR STRAIT N
50.5N 141.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	8.2	1.1	2.0	.0	3.6	.0	.0	14.4	3.0	.0	.0	.0	.9	.0	81.9
NE	15.3	7.8	.0	.0	4.2	.0	.0	23.1	5.9	.0	2.6	.0	.0	.0	68.4
E	9.2	.0	.0	.0	.0	.0	.0	9.2	3.2	.0	3.7	.0	.0	.0	83.9
SE	12.1	1.6	3.1	.0	.0	.0	.0	16.8	.0	.0	6.3	.0	.0	.0	77.0
S	3.6	.6	.6	.0	.4	.0	.0	5.2	.0	.0	6.9	.0	.0	.0	87.9
SW	3.4	1.9	.0	.0	1.2	.0	.0	6.5	1.0	.0	4.8	.0	1.0	.0	86.7
W	4.4	.8	.0	.0	.8	.0	.0	6.1	.8	.0	4.4	.0	.0	.0	88.6
NW	10.7	1.5	3.2	.0	3.6	.0	.5	18.0	2.6	.0	2.4	.0	.1	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	2.9	.0	.0	.0	.0	.0	5.7	.0	.0	2.9	.0	2.9	.0	88.6
TOT PCT	7.6	1.7	1.3	.0	2.0	.0	.1	12.0	1.9	.0	3.6	.0	.4	.0	82.2
TOT OBS:	1010														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.4	2.9	1.6	.0	2.1	.0	.0	12.9	2.1	.0	6.3	.0	.5	.0	78.1
06009	6.9	.9	.9	.0	1.4	.0	.5	10.1	1.4	.0	4.1	.0	.0	.0	84.4
12015	9.7	1.7	.3	.0	3.1	.0	.0	14.2	2.4	.0	1.7	.0	.7	.0	81.0
18021	6.5	1.2	2.4	.0	.6	.0	.0	10.7	1.2	.0	1.2	.0	.0	.0	87.0
TOT PCT	7.8	1.9	1.2	.0	2.0	.0	.1	12.3	1.9	.0	3.8	.0	.4	.0	81.6
TOT OBS:	1055														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	5.0	8.6	3.4	.5	.1		18.1	16.1		16.0	26.7	22.5	20.4	15.0	17.7	16.9	31.4
NE	.3	2.5	4.3	.5	.4	.0		7.6	13.1		4.7	1.7	6.4	.0	10.9	5.2	9.1	5.7
E	.3	2.4	2.0	.4	.0	.0		5.1	11.6		4.8	3.3	3.3	.0	5.1	6.3	8.0	11.4
SE	.1	3.2	2.4	.3	.1	.1		6.2	12.6		7.4	.0	2.8	7.4	6.6	2.1	10.0	2.9
S	.4	5.0	8.8	2.6	.7	.0		17.6	15.4		15.8	3.3	19.3	15.7	20.5	13.5	21.2	8.6
SW	.6	3.6	4.9	1.3	.2	.0		10.7	13.8		11.8	18.3	12.4	10.2	11.3	7.3	6.1	2.9
W	.3	4.5	5.6	1.5	.0	.0		11.8	13.5		11.5	15.0	9.6	11.1	12.9	14.6	12.3	12.9
NW	.3	7.0	8.6	2.7	1.0	.0		19.7	15.3		21.3	25.0	19.6	35.2	16.6	33.3	13.4	24.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1	.0	.0	.0	.0	.0		3.1	.0		4.7	6.7	4.1	.0	1.3	.0	3.0	.0
TOT OBS	56	319	432	123	25	2	957		14.1		300	30	172	27	237	24	132	35
TOT PCT	5.9	33.3	45.1	12.9	2.6	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WNO DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					06	12	18	
N	2.8	6.5	7.1	1.6	.1		18.1	16.1	17.0	22.2	15.2	19.9	
NE	1.3	4.0	2.3	.4	.0		7.6	13.1	6.2	5.5	10.3	8.4	
E	1.8	1.8	1.3	.2	.0		5.1	11.6	4.6	2.9	5.2	8.7	
SE	1.4	3.6	.9	.2	.1		6.2	12.6	6.7	3.4	6.2	8.5	
S	2.8	7.3	5.9	1.4	.2		17.6	15.6	14.7	18.8	19.8	18.6	
SW	2.1	5.3	2.5	.8	.0		10.7	13.8	12.4	12.1	10.9	5.4	
W	1.9	6.2	3.1	.6	.0		11.8	13.5	11.8	9.8	12.0	12.4	
NW	2.9	9.1	5.7	1.9	.1		19.7	15.3	21.7	21.7	18.1	13.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.1						3.1	.0	4.8	3.5	1.1	2.4	
TOT OBS	193	420	275	64	5	957		14.1	330	199	261	167	
TOT PCT	20.2	43.9	28.7	6.7	.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1872-1974

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AREA 0017 TATAR STRAIT N
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.8	3.3	33.3	43.6	13.3	1.2	.3	13.5	100.0	330	
06009	3.5	1.5	31.2	47.2	14.6	1.5	.3	14.6	100.0	199	
12015	1.1	3.1	34.5	45.6	10.7	5.0	.0	14.7	100.0	261	
18021	2.4	2.4	34.1	44.9	13.2	3.0	.0	13.8	100.0	167	
TOT	30	26	319	432	123	25	2	14.1		957	
PCT	3.1	2.7	33.3	45.1	12.9	2.6	.2		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	4.0	1.3	5.3	7.0		5.5
NE	1.2	.4	2.1	3.5		6.1
E	1.0	.4	1.9	1.6		5.3
SE	2.8	.5	2.0	1.9		4.3
S	8.0	1.7	5.1	3.6		3.9
SW	4.4	1.1	3.2	1.6		3.8
W	3.8	1.1	3.4	3.4		4.6
NW	4.4	2.5	6.1	5.7		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.5	1.3	.4		3.4
TOT OBS	238	71	229	217	755	4.7
TOT PCT	31.5	9.4	30.3	28.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.1	.8	1.0	4.1	3.9	.7	.4	.0	.1	6.1	
NE	.2	.0	.1	.6	1.3	1.7	.8	.3	.0	.2	2.3	
E	.4	.0	.0	.1	.3	.5	.3	.5	.0	.3	2.5	
SE	.0	.0	.0	.5	.4	1.3	.6	.3	.1	.0	3.8	
S	.2	.0	.0	.0	1.5	2.6	1.3	.6	.5	.1	11.6	
SW	.0	.0	.0	.3	.6	1.5	.5	.1	.3	.0	6.9	
W	.1	.0	.3	.3	1.1	2.2	.1	.1	.3	.1	7.1	
NW	.5	.1	.1	1.2	3.0	3.5	1.1	.8	.0	.1	8.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.4	.9	.0	.1	.0	.1	2.5	
TOT OBS	14	2	10	31	95	138	40	24	10	7	384	755
TOT PCT	1.9	.3	1.3	4.1	12.6	18.3	5.3	3.2	1.3	.9	50.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		
OR >6500	1.9	2.2	2.3	2.3	2.3	2.3	2.3	2.3		
OR >5000	4.6	5.1	5.2	5.2	5.2	5.2	5.2	5.2		
OR >3500	8.4	9.7	10.3	10.4	10.4	10.4	10.4	10.4		
OR >2000	20.1	26.4	28.2	28.7	28.7	28.7	28.7	28.7		
OR >1000	25.8	35.8	40.0	40.8	41.3	41.3	41.3	41.4		
OR >500	26.6	38.0	43.6	44.7	45.4	45.4	45.4	45.5		
OR >300	26.9	39.0	44.9	46.1	46.8	46.8	46.8	46.9		
OR >150	27.2	39.3	45.1	46.4	47.0	47.0	47.0	47.1		
OR >0	27.3	40.0	46.8	48.0	49.0	49.0	49.2	49.3		
TOTAL	215	315	368	378	386	386	387	388		

TOTAL NUMBER OF OBS: 787

PCT FREQ NH <5/8: 50.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	25.0	6.0	8.7	5.2	4.6	6.9	8.6	9.0	23.9	2.0	840

PERIOD: (PRIMARY) 1958-1974
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AREA 0017 TATAR STRAIT N
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.4	
	NO PCP	.0	.1	.0	.1	.2	.0	.1	.0	.0	.0	.5	
	TOT %	.0	.1	.0	.2	.2	.0	.2	.2	.0	.0	.9	
1/2<1	PCP	.1	.0	.1	.1	.2	.0	.1	.3	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.1	.1	.4	.1	.1	.3	.0	.0	1.2	
1<2	PCP	.3	.0	.0	.0	.3	.0	.0	.2	.0	.0	.8	
	NO PCP	.2	.1	.0	.1	.0	.1	.2	.0	.0	.0	.7	
	TOT %	.4	.1	.0	.1	.3	.1	.2	.2	.0	.0	1.5	
2<5	PCP	1.0	1.2	.1	.5	.2	.0	.3	1.9	.0	.0	5.3	
	NO PCP	.5	.4	.3	.1	.7	.4	.4	.6	.0	.0	3.4	
	TOT %	1.4	1.6	.4	.7	.9	.4	.7	2.6	.0	.0	8.7	
5<10	PCP	1.2	.5	.3	.2	.2	.6	.3	.7	.0	.2	4.2	
	NO PCP	3.8	1.1	.5	.9	3.1	1.5	1.5	2.6	.0	.4	15.5	
	TOT %	5.0	1.7	.8	1.2	3.3	2.1	1.8	3.4	.0	.6	19.8	
10+	PCP	.2	.0	.0	.1	.0	.1	.0	.1	.0	.0	.5	
	NO PCP	11.5	4.1	4.1	4.0	12.0	7.5	8.9	12.5	.0	2.9	67.5	
	TOT %	11.7	4.1	4.1	4.1	12.0	7.6	8.9	12.7	.0	2.9	68.0	
TOT OBS													1012
TOT PCT		18.7	7.6	5.4	6.3	17.1	10.3	11.8	19.3	.0	3.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.5	
	11-21	.0	.1	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.0	.1	.1	.1	.4	.1	.2	.2	.0	.0	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.2	.0	.1	.0	.0	.4	
	11-21	.1	.0	.1	.0	.3	.0	.1	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.1	.0	.1	.1	.3	.2	.1	.4	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3	
	11-21	.2	.1	.0	.0	.1	.1	.1	.1	.0	.0	.6	
	22+	.3	.1	.0	.0	.2	.1	.1	.0	.0	.0	.9	
	TOT %	.6	.2	.0	.1	.4	.2	.3	.2	.0	.0	1.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	.6	.1	.3	.3	.3	.3	.8	.0	.0	3.2	
	11-21	.4	1.0	.2	.2	.5	.2	.4	.9	.0	.0	3.7	
	22+	1.0	.2	.0	.1	.2	.0	.0	1.0	.0	.0	2.4	
	TOT %	1.8	1.7	.3	.6	1.0	.5	.7	2.7	.0	.0	9.4	
5<10	0-3	.1	.2	.2	.0	.0	.2	.0	.1	.0	.4	1.2	
	4-10	1.0	.4	.1	.6	.8	.6	.6	1.3	.0	.0	5.4	
	11-21	2.3	.9	.3	.7	2.1	1.0	.7	1.3	.0	.0	9.3	
	22+	1.3	.1	.1	.0	.4	.2	.3	.8	.0	.0	3.3	
	TOT %	4.8	1.6	.7	1.3	3.3	2.0	1.6	3.5	.0	.4	19.2	
10+	0-3	.3	.1	.1	.1	.2	.3	.3	.3	.0	2.6	4.3	
	4-10	3.5	1.5	2.2	2.0	3.9	2.6	3.2	4.5	.0	.0	23.3	
	11-21	5.6	2.3	1.4	1.6	5.6	3.6	4.4	6.0	.0	.0	30.7	
	22+	1.5	.2	.3	.3	2.6	1.2	1.0	1.6	.0	.0	8.7	
	TOT %	10.9	4.2	4.0	4.0	12.3	7.8	8.8	12.4	.0	2.6	67.0	
TOT OBS													939
TOT PCT		18.2	7.7	5.2	6.2	17.6	10.7	11.8	19.5	.0	3.0	100.0	

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PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1872-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $\leq 5/8$ BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 5/8$ ANY HGT	TOTAL OBS
00003	2.2	.0	1.6	5.7	13.5	18.2	6.0	2.2	1.9	.3	51.6	48.4	318
06009	.6	.0	1.1	3.4	12.3	19.0	3.9	2.8	.6	1.7	45.3	54.7	179
12015	4.1	.5	1.0	3.0	10.7	18.3	4.1	3.0	1.0	.0	45.7	54.3	197
18021	.9	.9	1.8	1.8	13.2	15.8	6.1	5.3	1.8	2.6	50.0	50.0	114
TOT	17	2	11	32	101	146	41	24	11	7	392	416	808
PCT	2.1	.2	1.4	4.0	12.5	18.1	5.1	3.0	1.4	.9	48.5	51.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	1.3	1.0	11.5	18.1	67.3	382
06009	1.0	1.4	1.4	8.1	15.8	71.9	221
12015	.3	1.0	3.4	10.8	22.7	61.7	295
18021	2.8	2.3	1.1	6.8	22.2	64.8	176
TOT	12	15	19	106	210	712	1074
PCT	1.1	1.4	1.8	9.9	19.6	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH $\leq 5/8$ AND 5+	TOTAL OBS
00003	2.6	5.4	17.3	37.4	45.4	313
06009	1.2	2.9	12.9	34.5	52.6	171
12015	4.2	7.3	17.3	30.9	51.8	191
18021	.9	5.4	10.7	42.0	47.3	112
TOT	19	42	121	282	384	787
PCT	2.4	5.3	15.4	35.8	48.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	1.0	.0	1.6	2.6	1.6	2.6	18	9.4
50/54	.0	.0	1.0	1.0	1.6	4.2	5.2	2.6	30	15.6
45/49	.0	.0	1.0	1.6	4.7	4.2	8.9	2.6	44	22.9
40/44	.0	.0	.5	1.6	5.7	6.3	8.3	6.3	55	28.6
35/39	.0	.0	.0	2.1	4.2	3.6	6.3	5.2	41	21.4
30/34	.0	.0	.0	.5	.0	.0	.0	1.6	4	2.1
TOT	0	0	7	13	34	40	58	40	192	100.0
PCT	.0	.0	3.6	6.8	17.7	20.8	30.2	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	1.0	6.1	1.7	.5	.0	.0	.0
50/54	.0	.5	1.6	2.2	6.0	2.7	.0	2.1	.0	.5
45/49	3.0	3.6	2.6	1.7	3.5	1.6	1.6	4.3	.0	1.0
40/44	3.4	2.9	1.4	1.6	5.1	1.6	5.2	7.0	.0	.5
35/39	3.9	1.6	2.6	.7	1.4	1.0	6.9	2.7	.0	.5
30/34	.0	.1	.4	.0	1.0	.0	.5	.0	.0	.0
TOT	10.3	8.7	8.6	7.2	23.2	8.6	14.7	16.1	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	61	56	44	34	30	24	44.4	385
06009	59	58	56	45	34	26	16	45.5	220
12015	59	58	55	43	34	29	16	43.5	293
18021	56	55	54	44	34	26	23	43.7	177
TOT	62	58	55	44	34	28	16	44.3	1075

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.7	30.2	19.0	22.2	15.9	75	63		
06009	.0	12.2	18.4	24.5	22.4	22.4	76	49		
12015	.0	10.6	8.5	19.1	34.0	27.7	81	47		
18021	.0	10.5	5.3	18.4	44.7	21.1	80	38		
TOT	0	23	34	40	58	42	78	197		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TUT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0	3	.1	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
9/10	.0	.0	.0	.0	.1	.2	.1	.3	.1	.3	.0	11	.2	1.0
7/8	.0	.0	.0	.0	.0	.4	.5	.1	.0	.6	.0	16	.2	1.3
6	.0	.0	.0	.0	.1	.5	.3	.2	.2	.2	.0	15	.0	1.6
5	.0	.0	.0	.0	.1	.1	.6	.4	1.8	.3	.1	33	.4	3.1
4	.0	.0	.0	.0	.2	.7	.6	.6	1.5	.0	.1	36	.1	3.7
3	.0	.0	.0	.0	.4	.2	.4	.4	1.0	.0	.0	23	.1	2.4
2	.0	.0	.0	.1	.5	1.0	1.5	1.4	1.6	.2	.1	60	.1	6.3
1	.0	.0	.0	.2	.1	.5	.6	.9	.6	.5	.0	33	.5	3.0
0	.0	.0	.0	.4	1.1	1.9	2.6	1.3	.6	.2	.0	76	.0	8.1
-1	.0	.0	.1	.0	.5	.7	.4	.7	.6	.1	.0	31	.0	3.3
-2	.0	.0	.2	.6	1.7	1.4	2.4	1.3	.6	.0	.0	77	.2	8.0
-3	.0	.0	.1	.4	.9	1.0	1.6	.7	.3	.1	.0	48	.2	4.9
-4	.0	.0	.1	1.1	2.2	2.1	3.6	1.9	.4	.0	.0	108	.3	11.2
-5	.0	.0	.2	.6	2.5	1.7	1.6	1.2	.4	.0	.0	77	.5	7.7
-6	.0	.0	.0	.1	.6	.9	.5	.1	.0	.0	.0	21	.0	2.2
-7/-8	.0	.0	.3	1.4	2.7	3.1	2.4	.6	.0	.0	.0	98	.2	10.3
-9/-10	.0	.0	.2	.4	2.5	2.0	1.3	.3	.0	.0	.0	63	.3	6.4
-11/-13	.1	.1	.2	.9	1.6	1.3	.4	.0	.0	.0	.0	43	.1	4.5
-14/-16	.1	.0	.5	1.4	1.9	.4	.0	.0	.0	.0	.0	41	.1	4.3
-17/-19	.0	.1	.3	.5	.1	.0	.0	.0	.0	.0	.0	10	.1	1.0
-20/-22	.0	.2	.1	.4	.1	.0	.0	.0	.0	.0	.0	8	.1	.8
<-30	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	5	23	81	187	190	204	119	93	26	4	934	38	896
PCT	.2	.5	2.5	8.7	20.0	20.3	21.8	12.7	10.0	2.8	.4	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.6	.4	.0	.0	.0	3.4	.4	1.2	*	.0	.0	.0	1.6
1-2	.0	2.3	2.2	.0	.0	.0	4.5	.0	.9	1.6	.0	.0	.0	2.6
3-4	.0	.0	4.8	.4	.0	.0	5.2	.0	*	1.5	.2	.0	.0	1.7
5-6	.0	.2	1.8	1.4	.0	.0	3.4	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.5	.5	.0	.0	1.0	.0	.0	.4	.2	.0	.0	.5
8-9	.0	.0	.1	.4	.1	.0	.6	.0	.0	.0	.0	*	.0	*
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	10.0	3.6	.3	.0	19.4	.4	2.2	4.3	.4	*	.0	7.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	1.7	.4	.0	.0	.0	2.1
1-2	.0	.9	1.1	.0	.0	.0	2.0	.0	1.0	.4	.0	.0	.0	1.4
3-4	.0	.1	.4	.0	.0	.0	.5	.0	.2	1.0	.0	.0	.0	1.2
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	1.6	.0	.0	.0	3.9	.0	2.9	1.8	.2	.0	.2	5.1

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.4	.0	.0	.0	2.6	.6	.9	.2	.0	.0	.0	1.7
1-2	.0	2.6	2.5	.0	.0	.0	5.2	.0	3.0	1.6	.0	.0	.0	4.6
3-4	.0	.5	2.4	.2	.0	.0	3.1	.0	.2	1.9	.2	.0	.0	2.2
5-6	.0	.0	1.6	.4	.2	.0	2.2	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.4	.2	.0	.0	.5	.0	.0	.2	.4	.0	.0	.6
8-9	.0	.0	.7	.3	.2	.0	1.1	.0	.0	.2	.8	.2	.0	1.2
10-11	.0	.0	.0	.4	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.9	8.0	1.3	.9	.0	15.6	.6	4.3	4.4	1.3	.2	.0	10.9

	N							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.4	3.8	.2	.0	.0	.0	4.4	.2	3.6	.2	.0	.0	.0	4.0	
1-2	.0	1.8	2.2	.0	.0	.0	4.0	.0	4.0	3.6	.0	.0	.0	7.6	
3-4	.0	.0	2.2	.2	.0	.0	2.4	.0	.4	2.9	.5	.0	.0	3.8	
5-6	.0	.0	.4	.7	.0	.0	1.1	.0	.2	.5	.6	.4	.0	1.6	
7	.0	.0	.3	.4	.0	.0	.8	.0	.0	.8	.4	.0	.0	1.2	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.4	.4	.2	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.4	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.6	5.2	1.4	.0	.0	12.5	.2	8.1	8.8	2.8	1.2	.0	21.1	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	16.9	1.8	.0	.0	.0	25.3	
1-2	.0	16.5	15.3	.0	.0	.0	31.9	
3-4	.0	1.4	17.1	1.6	.0	.0	20.1	
5-6	.0	.5	5.7	3.0	.5	.0	9.8	
7	.0	.0	2.5	2.0	.0	.2	4.6	
8-9	.0	.0	1.4	2.1	.7	.0	4.3	
10-11	.0	.0	.0	1.2	.4	.0	1.6	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.2	.5	.5	.0	1.2	
17-19	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.2	.2	.0	.4	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.2	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	35.4	44.1	11.0	2.7	.2	100.0	562

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	13.5	9.9	5.8	2.5	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	286	3
6-7	.0	.6	1.3	3.7	1.5	2.0	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	6
8-9	.0	.4	.5	.2	.5	.4	.6	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	24	8
10-11	.0	.9	.1	.0	.2	.1	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	18	7
12-13	.0	.0	.6	.1	.1	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	16
>13	.0	.0	.0	.6	.0	.0	.0	.0	.1	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	411	3
INDET	13.5	10.2	12.8	6.4	4.0	1.4	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	846	4
TOTAL	121	216	213	142	75	40	18	4	8	2	2	1	2	2	0	0	0	0	0	100.0	
PCT	14.3	25.5	25.2	16.8	8.9	4.7	2.1	.5	.9	.2	.2	.1	.2	.2	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

NOVEMBER

AREA 0017 TATAR STRAIT N
49.7N 141.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.1	.0	.0	1.1	39.2	.0	.0	41.4	1.9	.0	2.2	.0	.0	.0	54.6
NE	1.3	11.8	.0	.0	25.0	.0	.0	38.2	5.9	.0	5.9	.0	.0	.0	50.0
E	2.8	.0	3.7	.0	7.5	.0	.0	14.0	7.5	.0	13.1	.0	.0	.0	65.4
SE	.0	8.1	3.3	.0	17.1	.0	.0	28.5	6.5	.0	8.9	.0	.0	.0	56.1
S	2.5	3.8	.0	.0	6.3	.0	.0	12.7	4.4	.0	8.2	.0	.0	.0	74.7
SW	3.1	3.1	.0	.0	7.0	.0	.0	10.1	.8	.0	7.0	.0	.0	.0	82.2
W	1.0	.8	.0	.0	7.4	.0	.0	9.2	1.8	.0	7.4	.0	.0	.0	81.6
NW	.6	1.3	.0	.6	18.6	.0	.0	21.0	7.0	.0	2.2	.0	.0	.0	69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	20.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	1.2	1.9	.4	.4	18.1	.0	.0	21.7	4.4	.0	5.0	.0	.0	.0	68.8
TOT OBS:	520														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.5	2.6	.0	.0	17.5	.0	.0	20.1	4.2	.0	10.6	.0	.0	.0	65.1
06009	1.9	2.8	.9	.0	14.0	.0	.0	19.6	4.7	.0	1.9	.0	.0	.0	73.8
12015	1.4	.0	.0	.0	17.5	.0	.0	18.9	3.5	.0	.0	.0	.0	.0	77.6
18021	1.0	2.1	1.0	2.1	22.7	.0	.0	28.9	5.2	.0	4.1	.0	.0	.0	61.9
TOT PCT	1.1	1.9	.4	.4	17.7	.0	.0	21.3	4.3	.0	4.9	.0	.0	.0	69.6
TOT OBS:	536														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.3	3.3	8.0	5.5	2.9	.1		20.0	21.3	13.7	32.6	14.0	30.4	15.2	30.1	14.4	21.9
NE	.0	2.3	.6	.2	.2	.0		3.3	11.5	2.4	1.8	3.4	1.8	4.1	2.8	5.0	5.5
E	1.1	2.4	1.3	.1	.0	.0		4.9	8.7	4.4	3.6	6.4	7.1	2.6	4.5	9.4	4.7
SE	.2	2.9	2.8	.1	.0	.0		5.9	10.8	3.0	5.8	13.1	8.5	6.7	4.5	8.1	1.2
S	.2	2.5	3.4	1.1	.2	.0		7.3	14.7	9.3	1.3	11.4	1.3	13.9	2.3	5.0	4.7
SW	.0	2.5	2.8	.7	.0	.0		6.0	13.7	8.9	.4	7.6	2.2	9.3	1.1	13.8	.4
W	.4	3.7	7.1	5.6	.6	.0		17.4	18.1	19.4	23.7	16.1	14.3	17.0	12.5	12.5	19.1
NW	.8	5.3	16.6	9.7	1.7	.1		34.3	18.4	37.3	30.8	28.0	34.4	29.1	42.0	29.4	42.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.6	.0	.0	.0	2.1	.0	2.5	.0
TOT OBS	21	134	230	124	30	1	540		17.1	124	56	59	56	97	44	40	64
TOT PCT	3.9	24.8	42.6	23.0	5.6	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.8	6.0	7.9	4.6	.7		20.0	21.3	19.6	22.0	19.9	19.0	
NE	1.2	1.5	.5	.2	.0		3.3	11.5	2.2	2.6	3.7	5.3	
E	1.6	3.0	.2	.1	.0		4.9	8.7	4.2	6.7	3.2	6.5	
SE	1.3	3.9	.6	.1	.0		5.9	10.8	3.9	10.9	6.0	3.8	
S	1.3	3.5	1.9	.6	.0		7.3	14.7	6.8	6.5	10.3	4.8	
SW	1.4	2.8	1.6	.2	.0		6.0	13.7	6.3	5.0	6.7	5.5	
W	1.6	5.7	7.9	1.9	.3		17.4	18.1	20.7	15.2	15.6	16.6	
NW	2.1	12.8	15.1	4.0	.3		34.3	18.4	35.3	31.1	33.2	37.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.9						.9	.0	1.1	.0	1.4	1.0	
TOT OBS	66	212	192	63	7	540		17.1	180	115	141	104	
TOT PCT	12.2	39.3	35.6	11.7	1.3		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

AREA 0017 TATAR STRAIT N
49.7N 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.1	2.2	22.2	51.1	18.9	4.4	.0	16.9	100.0	180
0600	.0	3.5	24.3	40.0	26.1	6.1	.0	17.2	100.0	115
1200	1.4	2.8	29.1	34.8	25.5	5.7	.7	17.2	100.0	141
1800	1.0	3.8	24.0	41.3	23.1	6.7	.0	17.1	100.0	104
TOT	5	16	134	230	124	30	1	17.1		540
PCT	.9	3.0	24.8	42.6	23.0	5.6	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	2.0	3.1	7.1		3.9
NE	.0	.4	.9	2.2		7.1
E	1.4	1.1	.3	2.3		5.1
SE	1.1	.5	1.9	4.9		6.4
S	2.6	.5	1.7	5.3		5.5
SW	2.1	1.4	1.6	2.6		4.6
W	6.1	3.8	5.0	3.1		4.0
NW	6.9	6.1	11.9	7.2		4.8
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	.3	.0		2.5
TOT OBS	72	51	85	110	318	5.1
TOT PCT	22.6	16.0	26.7	34.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	595	999	1999	3499	4999	6499	7999			
.6	.0	.0	.6	3.0	1.7	1.7	.0	.0	.0	4.2	
.0	.0	.0	.3	2.0	.1	.0	.0	.0	.0	1.2	
.3	.0	.0	.3	1.1	.0	.6	.0	.0	.0	2.8	
.0	.0	.0	.0	3.5	.5	1.6	.0	.3	.0	2.5	
.0	.0	.3	.0	2.1	.8	.7	.0	.0	.0	6.1	
.6	.0	.0	.0	1.2	.7	.9	.0	.0	.0	4.2	
.0	.0	.6	.3	1.6	3.4	.5	.0	.0	.6	11.2	
1.0	.0	.4	.6	9.4	2.3	4.3	.3	.0	.3	13.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
.8	.0	.4	.7	82	30	33	1	1	3	149	318
2.5	.0	1.3	2.2	25.8	9.4	10.4	.3	.3	.9	46.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.5	1.6	1.8	1.8	1.8	1.8	1.8
>5000	1.5	1.8	2.1	2.1	2.1	2.1	2.1	2.1
>3500	10.7	11.6	12.2	12.2	12.2	12.2	12.2	12.2
>2000	15.2	18.9	21.0	21.6	21.6	21.6	21.6	21.6
>1000	20.4	29.6	37.8	40.9	45.4	46.6	46.6	46.6
>600	20.7	30.8	39.3	42.7	47.6	49.1	49.1	49.1
>300	20.7	31.1	40.2	43.6	48.8	50.3	50.3	50.3
>150	20.7	31.1	40.2	43.6	48.8	50.3	50.3	50.3
>0	20.7	31.1	40.5	44.5	49.7	52.4	52.4	52.4
TOTAL	68	102	133	146	163	172	172	172

TOTAL NUMBER OF OBS: 328

PCT FREQ NH <5/8: 47.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.8	5.2	9.8	6.4	6.1	6.4	11.8	5.2	28.6	1.7	346

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

NOVEMBER

AREA 0017 TATAR STRAIT N
49.7N 141.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	3.2	.2	.2	.0	.0	.0	.0	2.1	.0	.0	3.4	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	3.4	.2	.2	.0	.0	.0	.0	2.3	.0	.0	6.0	
1/2<1	PCP	2.3	.2	.3	.2	.2	.2	.1	.9	.0	.0	4.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	2.3	.2	.3	.2	.2	.2	.1	1.1	.0	.0	4.9	
1<2	PCP	.7	.0	.0	.2	.0	.0	.2	2.3	.0	.2	3.6	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.4	.0	.0	.6	
	TOT %	.7	.0	.0	.2	.1	*	.2	2.7	.0	.2	4.1	
2<5	PCP	.8	.2	.3	1.1	.6	.4	.8	1.0	.0	.0	5.3	
	NO PCP	.2	.4	.2	.4	.5	.6	1.5	.1	.0	.0	3.8	
	TOT %	1.0	.6	.5	1.5	1.0	1.0	2.3	1.1	.0	.0	9.0	
5<10	PCP	.9	.4	.0	.2	.2	.0	.3	.8	.0	.0	2.8	
	NO PCP	2.3	.7	1.3	.9	.3	.8	3.6	7.4	.0	.2	17.4	
	TOT %	3.2	1.1	1.3	1.1	.5	.8	3.9	8.2	.0	.2	20.3	
10+	PCP	.8	.2	.0	.0	.0	.0	.3	.5	.0	.0	1.9	
	NO PCP	7.5	.9	2.6	2.8	5.5	4.0	11.6	18.2	.0	.6	53.8	
	TOT %	8.3	1.1	2.6	2.8	5.5	4.0	11.9	18.8	.0	.6	55.7	
TOT OBS													533
TOT PCT		19.2	3.2	5.0	5.8	7.4	6.1	18.3	34.1	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.5	.0	.2	.0	.0	.0	.0	.8	.0	.0	1.5	
	22+	2.9	.0	.0	.0	.0	.0	.0	1.2	.0	.0	4.1	
	TOT %	3.4	.2	.2	.0	.0	.0	.0	2.1	.0	.0	5.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.1	.0	.2	.0	.0	.2	.0	.0	.8	
	11-21	1.6	.0	.2	.2	.0	.2	.1	.4	.0	.0	2.6	
	22+	1.2	.0	.0	.0	.0	.0	.0	.8	.0	.0	2.1	
	TOT %	2.8	.2	.3	.2	.2	.2	.1	1.4	.0	.0	5.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.4	
	4-10	.2	.0	.0	.2	.0	.1	.1	.0	.0	.0	.6	
	11-21	.4	.0	.0	.0	.1	*	.0	1.6	.0	.0	2.3	
	22+	.9	.0	.0	.0	.0	.0	.4	1.3	.0	.0	2.6	
	TOT %	1.5	.0	.0	.2	.1	.1	.5	3.1	.0	.2	5.8	
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.2	.1	.3	.5	.8	.3	*	.0	.0	2.4	
	11-21	.2	.3	.0	1.2	.8	.2	.8	1.0	.0	.0	4.5	
	22+	.8	.2	.0	.0	.0	.2	1.4	.7	.0	.0	3.2	
	TOT %	1.2	.7	.3	1.5	1.2	1.2	2.4	1.7	.0	.0	10.3	
5<10	0-3	.1	.0	.6	.2	.0	.0	.2	.3	.0	.2	1.5	
	4-10	.9	.6	.5	.8	.1	.4	.6	1.3	.0	.0	5.3	
	11-21	1.0	.3	.1	.0	.4	.4	1.1	3.3	.0	.0	6.6	
	22+	1.2	.2	.1	.1	.0	.0	1.6	3.3	.0	.0	6.6	
	TOT %	3.2	1.1	1.3	1.1	.5	.8	3.5	8.2	.0	.2	19.9	
10+	0-3	.2	.0	.4	.0	.2	.0	.2	.4	.0	.6	1.9	
	4-10	2.1	1.1	1.4	1.6	1.5	1.3	2.8	3.8	.0	.0	15.6	
	11-21	4.2	*	.8	1.2	2.2	1.8	5.2	9.5	.0	.0	25.0	
	22+	1.5	.0	.0	.0	1.3	.5	3.0	4.1	.0	.0	10.7	
	TOT %	8.0	1.1	2.6	2.8	5.2	3.6	11.1	17.8	.0	.6	55.7	
TOT OBS													533
TOT PCT		20.1	3.3	4.8	5.8	7.2	5.9	17.6	34.3	.0	.9	100.0	

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(OVER-ALL) 1933-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	2.2	.0	2.2	2.9	21.6	12.2	10.1	.7	.7	2.2	54.7	45.3	139
06009	1.4	.0	.0	4.3	30.0	8.6	14.3	.0	.0	.0	58.6	41.4	70
12015	5.1	.0	1.3	1.3	17.9	10.3	6.4	.0	.0	2.6	44.9	55.1	78
18021	.0	.0	.0	.0	36.2	2.1	8.5	.0	.0	.0	46.8	53.2	47
TOT	8	0	4	8	82	32	33	1	1	5	174	160	334
PCT	2.4	.0	1.2	2.4	24.6	9.6	9.9	.3	.3	1.5	52.1	47.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	5.2	3.6	4.7	12.4	17.1	57.0	193
06009	1.7	6.8	5.9	10.2	19.5	55.9	118
12015	6.0	4.0	5.3	9.3	21.9	53.6	151
18021	10.8	8.1	6.3	8.1	19.8	46.8	111
TOT	33	30	31	59	111	309	573
PCT	5.8	5.2	5.4	10.3	19.4	53.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	2.2	9.5	25.5	31.4	43.1	137
06009	1.4	8.7	27.5	33.3	39.1	69
12015	4.0	9.3	20.0	25.3	54.7	75
18021	.0	12.8	21.3	25.5	53.2	47
TOT	7	32	79	97	152	328
PCT	2.1	9.8	24.1	29.6	46.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/34	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
45/49	.0	.0	.0	.0	1.8	4.6	.0	.0	7	6.4
40/44	.0	.0	.0	.0	1.8	3.7	5.5	3.7	16	14.7
35/39	.0	.0	.0	2.8	4.6	.9	.9	6.4	17	15.6
30/34	.0	.0	.0	.9	.9	.0	.0	3.7	6	5.5
25/29	.0	.0	.0	2.8	2.8	3.7	.0	2.8	13	11.9
20/24	.0	.0	.0	7.3	11.0	3.7	.9	3.7	29	26.6
15/19	.0	.0	.0	9.2	1.8	2.8	1.8	2.8	20	18.3
TOTAL	0	0	0	25	27	21	10	26	109	100.0
PCT	.0	.0	.0	22.9	24.8	19.3	9.2	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
0.0	0.0	.9	.0	.0	.0	.0	.0	.0	.0
0.0	0.0	.0	.0	3.2	.9	2.3	.0	.0	.0
.9	.0	.0	.2	8.0	3.7	.9	.9	.0	.0
.0	.0	2.5	6.0	4.1	.2	.7	2.1	.0	.0
.0	1.8	.0	.9	.0	.0	.0	2.8	.0	.0
.7	.0	.0	3.7	.0	2.1	1.4	4.1	.0	.0
5.7	.9	1.8	4.8	.7	.0	3.2	9.4	.0	.0
.9	.0	.0	.0	.0	.0	6.0	11.5	.0	.0
8.3	2.8	5.3	15.6	16.1	6.9	14.4	30.7	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	58	50	45	28	9	6	5	28.0	188
06009	64	51	45	30	18	6	6	30.2	110
12015	54	53	42	28	12	9	8	28.1	145
18021	50	49	45	27	10	6	6	26.5	108
TOT	64	50	45	28	10	6	5	28.2	551

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	36.8	15.8	26.3	10.5	10.5	69	38
06009	.0	25.0	34.4	12.5	6.3	21.9	72	32
12015	.0	12.5	25.0	25.0	.0	37.5	77	16
18021	.0	11.5	26.9	11.5	15.4	34.6	78	26
TOT	0	27	28	21	10	26	73	112

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)																		
AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WU FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	4	.0	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.2	.2	6	.0	1.3
5	.0	.0	.0	.0	.0	.0	.0	.2	1.8	.7	.4	.0	.2	.0	.0	15	.0	3.3
4	.0	.0	.0	.0	.0	.0	.0	.2	.7	.9	.2	.2	.2	.0	.0	11	.0	2.5
3	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.4	.0	.0	.0	.0	6	.4	.9
2	.0	.0	.0	.0	.0	.0	.0	.7	1.8	.4	.4	.2	.0	.0	.0	16	.2	3.3
1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.2	.0	.0	.0	.0	.0	7	.2	1.4
0	.0	.0	.0	.0	.0	.0	2.7	.9	1.8	.7	.6	.2	.0	.0	.0	31	.2	6.7
-1	.0	.0	.0	.0	.0	.0	.4	.2	.4	.9	.7	.0	.0	.0	.0	12	.7	2.0
-2	.0	.0	.0	.0	.0	.2	2.0	2.0	.4	.7	.0	.0	.0	.0	.0	24	.0	5.4
-3	.0	.0	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	4	.0	.9
-4	.0	.0	.0	.0	.0	3.1	1.1	1.6	.4	.4	.0	.0	.0	.0	.0	30	.2	6.5
-5	.0	.0	.0	.0	.0	1.6	2.0	1.3	.6	.0	.0	.0	.0	.0	.0	25	.0	5.6
-6	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.2	.2	.0	.0	.0	.0	8	.0	1.8
-7/-8	.0	.0	.0	.0	.0	.9	2.0	.7	2.7	.2	.0	.0	.0	.0	.0	29	.0	6.5
-9/-10	.0	.0	.0	.4	4.2	2.0	1.3	1.6	.7	.0	.0	.0	.0	.0	.0	46	.4	9.8
-11/-13	.0	.0	.0	2.2	3.3	2.7	.7	1.1	.4	.0	.0	.0	.0	.0	.0	47	.4	10.0
-14/-16	.0	.0	.7	3.6	2.7	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	39	.4	8.3
-17/-19	.0	.4	1.3	1.6	1.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	27	.4	5.6
-20/-22	.0	.7	.7	.7	1.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	17	.2	3.6
-23/-25	.4	.9	.7	.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.7	3.3
-26/-30	.2	1.1	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	.0	3.3
<-30	1.8	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.4	2.0
TOTAL	11	23	69	55	56	16	3	1	2	1	448	5.1	94.9					
PCT	2.5	3.3	5.1	9.8	15.4	15.4	12.3	12.7	12.5	5.8	3.6	.7	.4	.2	.2	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.7	.0	.0	.0	.0	.7	.0	.5	.0	.0	.0	.0	.0	.5	.5
1-2	.0	.0	1.8	.0	.0	.0	1.8	.0	.8	.5	.0	.0	.0	.0	1.3	1.3
3-4	.0	.4	3.0	.4	.0	.0	3.8	.0	.0	.1	.0	.0	.0	.0	.1	.1
5-6	.0	.0	4.1	.8	.0	.0	5.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
7	.0	.0	.6	1.5	.4	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.4	.0	.4	.4
13-16	.0	.0	.0	.4	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	10.0	3.8	2.1	.0	17.0	.0	1.3	.6	.4	.0	.0	.0	2.8	2.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.2	.4	.0	.0	.0	1.7	.0	1.2	.9	.0	.0	.0	.0	2.2	2.2
1-2	.4	.0	1.1	.0	.0	.0	1.6	.0	.5	2.4	.0	.0	.0	.0	2.9	2.9
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.0	.8	.0	.0	.0	.0	.8	.8
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.2	2.3	.0	.0	.0	3.9	.0	1.8	4.1	.0	.0	.0	.0	5.9	5.9

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.6	1.1	.0	.0	.0	3.1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	.3	1.9	.0	.0	.0	2.2	.0	1.8	1.9	.0	.0	.0	3.6
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.8	.1	.0	.0	.9
5-6	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.8	.5	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.9	4.1	.4	.0	.0	6.8	.0	3.6	3.9	.6	.0	.0	8.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.1	1.0	.0	.0	.0	2.2	1.2	.8	.6	.0	.0	.0	2.7	
1-2	.0	1.3	1.3	.0	.0	.0	2.7	.0	1.9	3.6	.0	.0	.0	5.5	
3-4	.0	.7	3.5	1.7	.0	.0	5.9	.0	.5	5.9	2.0	.0	.0	8.4	
5-6	.0	.4	2.6	1.8	.0	.0	4.8	.0	.0	5.4	3.1	.0	.0	8.5	
7	.0	.0	.0	.3	.6	.0	.9	.0	.0	2.3	4.9	.6	.0	7.8	
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.4	.0	.9	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.3	.0	.7	.0	.0	.4	.4	.1	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.6	8.5	5.0	.9	.0	18.0	1.2	3.6	18.3	11.7	.7	.0	35.6	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	9.1	4.1	.0	.0	.0	16.6	
1-2	.4	6.6	14.5	.0	.0	.0	21.6	
3-4	.0	1.7	14.9	4.1	.0	.0	20.7	
5-6	.0	.4	14.1	7.1	.0	.0	21.6	
7	.0	.0	3.3	6.6	1.7	.0	11.6	
8-9	.0	.4	.0	1.7	.0	.0	2.1	
10-11	.0	.0	.4	.8	.0	.0	1.7	
12	.0	.0	.0	.8	.4	.0	1.2	
13-16	.0	.0	.4	1.2	.8	.0	2.5	
17-19	.0	.0	.0	.0	.4	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	18.3	51.9	22.0	4.1	.0	100.0	241

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	5.5	9.6	10.1	2.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
6-7	.0	.9	2.0	2.6	4.1	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
8-9	.0	.0	.6	.3	.6	.3	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
10-11	.0	.6	.3	.3	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
12-13	.0	.0	1.4	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
INDEX	7.2	13.9	11.0	11.3	5.8	2.0	.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	4
TOTAL	29	72	86	85	48	11	6	5	7	1	0	0	0	0	0	0	0	0	0	345	4
PCT	8.4	20.9	24.9	24.6	12.5	3.2	1.7	1.4	2.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973AREA 0017 TATAR STRAIT N
49.2N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	51.7	.0	.0	51.7	6.8	.0	3.4	.0	.0	.0	38.1
NE	.0	.0	.0	.0	42.7	.0	.0	42.7	.0	.0	30.3	.0	.0	.0	27.0
E	.0	.0	.0	.0	3.6	.0	.0	3.6	.0	.0	48.8	.0	.0	.0	47.6
SE	.0	.0	.0	.0	15.2	.0	.0	15.2	12.1	.0	.0	.0	.0	.0	72.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	50.0
W	.0	.0	.0	.0	13.1	.0	.0	13.1	18.0	.0	6.6	.0	.0	.0	62.3
NW	.0	.0	.0	3.0	27.4	.0	.0	30.4	6.7	.0	.0	.0	.0	3.0	60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	66.7
TOT PCT	.0	.0	.0	.7	27.7	.0	.0	28.5	5.8	.0	16.1	.0	.0	.7	48.9
TOT OBS:	137														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.0	.0	.0	1.5	22.1	.0	.0	23.5	5.9	.0	19.1	.0	.0	1.5	50.0
06009	.0	.0	.0	.0	28.6	.0	.0	28.6	14.3	.0	4.8	.0	.0	.0	52.4
12015	.0	.0	.0	.0	44.4	.0	.0	44.4	2.8	.0	8.3	.0	.0	.0	44.4
18021	.0	.0	.0	.0	11.1	.0	.0	11.1	.0	.0	37.3	.0	.0	.0	55.6
TOT PCT	.0	.0	.0	.7	27.3	.0	.0	28.0	5.6	.0	16.1	.0	.0	.7	49.7
TOT OBS:	143														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.0	.7	7.4	8.2	6.4	.0		22.7	27.1	15.8	32.5	25.0	58.3	19.8	61.1	15.9	6.5
NE	1.0	9.6	3.5	2.2	1.3	.0		17.6	13.0	18.8	7.5	25.0	4.2	21.6	.0	22.7	15.6
E	1.0	10.4	3.4	.0	.0	.0		14.8	8.6	16.3	25.0	6.3	12.5	9.5	.0	22.7	34.4
SE	.0	2.2	2.0	.0	.0	.0		4.2	11.2	2.1	.0	6.3	.0	10.3	.0	.0	12.5
S	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.3	.7	.7	.0	.0		2.7	15.5	3.3	10.0	.0	.0	.0	.0	9.1	.0
W	.0	1.8	6.5	.7	1.2	.0		10.2	17.2	12.5	10.0	6.3	16.7	12.9	11.1	.0	.0
NW	1.3	6.2	12.1	3.7	2.5	.0		25.8	16.4	27.9	15.0	25.0	8.3	25.9	27.8	29.5	31.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	3.3	.0	6.3	.0	.0	.0	.0	.0
TOT OBS	8	48	53	23	17	0	149		16.6	60	10	16	6	29	9	11	8
TOT PCT	5.4	32.2	35.6	15.4	11.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.0	4.4	7.9	7.0	3.4		22.7	27.1	18.2	34.1	29.6	11.8
NE	5.0	8.9	1.0	2.0	.7		17.6	13.0	17.1	19.3	16.4	19.7
E	4.2	10.6	.0	.0	.0		14.8	8.6	17.3	8.0	7.2	27.6
SE	.8	2.7	.7	.0	.0		4.2	11.2	1.8	4.5	7.9	5.3
S	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
SW	.0	1.3	1.3	.0	.0		2.7	15.5	4.3	.0	.0	5.3
W	.7	6.4	2.0	.7	.5		10.2	17.2	12.1	9.1	12.5	.0
NW	3.4	10.7	8.6	3.0	.2		25.8	16.4	26.1	20.5	26.3	30.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.9	4.5	.0	.0
TOT OBS	24	67	32	19	7	149		16.6	70	22	38	19
TOT PCT	16.1	45.0	21.5	12.8	4.7		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973

AREA 0017 TATAR STRAIT N
49.2N 141.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	2.9	4.3	37.1	37.1	11.4	7.1	.0	14.5	100.0	70
06609	4.3	.0	18.2	45.5	13.6	18.2	.0	19.3	100.0	22
12615	.0	2.6	21.1	31.6	26.3	18.4	.0	20.7	100.0	38
18621	.0	5.3	52.6	26.3	10.5	5.3	.0	13.1	100.0	19
TOT	3	5	48	53	23	17	0	18.6		149
PCT	2.0	3.4	32.2	35.6	15.4	11.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	.0	.8	3.0	12.9		7.4
NE	2.3	.0	4.0	14.6		6.8
E	6.8	3.0	1.0	5.1		4.0
SE	2.0	.0	.0	1.0		4.0
S	.0	.0	.0	.0		.0
SW	3.0	.0	1.0	.0		2.2
W	1.0	2.0	7.1	2.0		5.5
NW	2.0	2.3	6.1	14.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	1.0		4.0
TOT OBS	18	8	22	51	99	5.9
TOT PCT	18.2	8.1	22.2	51.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
2.8	.0	1.0	.0	9.3	2.0	.0	.0	.0	.0	1.5	
4.0	.0	1.0	.0	2.5	8.1	.0	.0	1.0	1.0	3.3	
3.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	10.9	
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	3.0	
1.0	.0	.0	1.0	1.0	1.0	3.0	.0	1.0	.0	4.0	
1.3	.0	.0	.0	3.3	10.1	4.0	.0	.0	.0	6.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
14	0	2	1	16	22	9	0	7	1	32	99
14.1	.0	2.0	1.0	16.2	22.2	9.1	.0	2.0	1.0	32.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5500	1.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>5000	1.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>3500	6.9	10.8	11.8	11.8	11.8	11.8	11.8	11.8
>2000	9.8	18.6	24.5	28.4	30.4	33.3	34.3	34.3
>1000	11.8	23.5	29.4	40.2	43.1	48.0	50.0	50.0
>600	11.8	23.5	29.4	40.2	44.1	49.0	51.0	51.0
>300	11.8	23.5	29.4	40.2	45.1	50.0	52.9	52.9
>150	11.8	23.5	29.4	40.2	45.1	50.0	52.9	52.9
>0	11.8	24.5	32.4	44.1	50.0	56.9	61.8	67.6
TOTAL	12	25	33	45	51	58	63	69

TOTAL NUMBER OF OBS: 102

PCT FREQ NH <5/8: 32.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.1	3.5	11.5	.9	8.0	6.2	10.6	4.4	36.3	11.5	113

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973

DECEMBER

AREA 0017 TAYAR STRAIT N
49.2N 141.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	4.9	2.4	.0	.0	.0	.0	.7	1.5	.0	.0	9.5	
	NO PCP	1.4	3.4	2.0	.0	.0	.0	.0	.7	.0	.7	8.1	
	TOT %	6.3	5.7	2.0	.0	.0	.0	.7	2.2	.0	.7	17.6	
1/2<1	PCP	1.4	2.7	.0	.7	.0	.0	.0	.7	.0	.0	5.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	TOT %	1.4	2.7	.0	.7	.0	.0	.7	.7	.0	.0	6.1	
1<2	PCP	3.0	2.0	.5	.2	.0	.0	.0	5.1	.0	.0	10.8	
	NO PCP	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	3.0	2.7	.5	.8	.0	.0	.0	5.1	.0	.0	12.2	
2<5	PCP	1.4	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	5.4	
	NO PCP	.0	.2	2.5	.7	.0	.0	.7	4.7	.0	.0	8.8	
	TOT %	1.4	2.2	2.5	.7	.0	.0	.7	6.8	.0	.0	14.2	
5<10	PCP	1.4	.0	.0	.0	.0	.0	.7	.7	.0	.0	2.7	
	NO PCP	5.4	2.4	3.7	2.0	.0	.7	1.2	5.6	.0	.7	21.6	
	TOT %	6.8	2.4	3.7	2.0	.0	.7	1.9	6.3	.0	.7	24.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.9	2.0	5.4	1.4	.0	2.0	6.4	4.9	.0	.7	25.7	
	TOT %	2.9	2.0	5.4	1.4	.0	2.0	6.4	4.9	.0	.7	25.7	
TOT OBS													
TOT PCT													
		21.6	17.7	14.2	5.6	.0	2.7	10.3	25.8	.0	2.0	100.0	148

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	1.4	
	4-10	.0	4.1	1.4	.0	.0	.0	.0	.0	.0	.0	5.4	
	11-21	1.2	.9	.7	.0	.0	.0	.7	.0	.0	.0	3.4	
	22+	4.6	.9	.0	.0	.0	.0	.0	.7	.0	.0	6.1	
	TOT %	5.8	5.8	2.0	.0	.0	.0	.7	1.4	.0	.7	16.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	2.0	
	11-21	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	1.4	
	22+	1.4	.7	.0	.0	.0	.0	.0	.7	.0	.0	2.7	
	TOT %	1.4	2.7	.0	.7	.0	.0	.7	.7	.0	.0	6.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	2.0	.5	.2	.0	.0	.0	.7	.0	.0	3.4	
	11-21	1.0	.7	.0	.0	.0	.0	.0	3.1	.0	.0	4.8	
	22+	2.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	3.4	
	TOT %	3.1	2.7	.5	.2	.0	.0	.0	5.1	.0	.0	11.6	
2<5	0-3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.2	1.2	.0	.0	.0	.7	1.4	.0	.0	3.4	
	11-21	.7	.7	2.0	.7	.0	.0	.0	3.4	.0	.0	7.5	
	22+	1.7	.7	.0	.0	.0	.0	.0	2.4	.0	.0	4.8	
	TOT %	2.4	2.2	3.2	.7	.0	.0	.7	7.1	.0	.0	16.3	
5<10	0-3	.0	.0	.7	.0	.0	.0	.0	.7	.0	.7	2.0	
	4-10	.0	1.0	3.1	.7	.0	.0	.7	2.0	.0	.0	7.5	
	11-21	2.4	.0	.0	1.4	.0	.7	.5	2.6	.0	.0	7.5	
	22+	4.4	1.4	.0	.0	.0	.0	.7	1.0	.0	.0	7.5	
	TOT %	6.8	2.4	3.7	2.0	.0	.7	1.9	6.3	.0	.7	24.3	
10+	0-3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7	1.4	
	4-10	.7	1.0	4.4	.7	.0	1.4	.5	2.2	.0	.0	10.9	
	11-21	1.5	.7	.7	.0	.0	.0	4.8	2.6	.0	.0	10.2	
	22+	.7	.0	.0	.0	.0	.7	1.2	.2	.0	.0	2.7	
	TOT %	2.9	2.0	5.4	.7	.0	2.0	6.3	4.9	.0	.7	25.2	
TOT OBS													
TOT PCT													
		22.3	17.9	15.0	4.3	.0	2.7	10.4	25.5	.0	2.0	100.0	147

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PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	13.2	.0	1.9	1.9	5.7	26.4	9.4	.0	1.9	1.9	62.3	37.7	53
06009	13.3	.0	.0	.0	60.0	6.7	6.7	.0	.0	.0	86.7	13.3	15
12015	20.0	.0	4.0	.0	8.0	28.0	12.0	.0	4.0	.0	76.0	24.0	25
18021	9.1	.0	.0	.0	18.2	9.1	.0	.0	.0	.0	36.4	63.6	11
TOT	15	0	2	1	16	23	9	0	2	1	69	35	104
PCT	14.4	.0	1.9	1.0	15.4	22.1	8.7	.0	1.9	1.0	66.3	33.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	18.3	7.0	11.3	12.7	19.7	31.0	71
06009	13.0	.0	21.7	13.0	17.4	34.8	23
12015	16.7	9.5	7.1	19.0	33.3	14.3	42
18021	14.3	.0	9.5	23.8	23.8	28.6	21
TOT	26	9	18	25	37	42	157
PCT	16.6	5.7	11.5	15.9	23.6	26.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	13.7	31.4	51.0	21.6	27.5	51
06009	13.3	13.3	46.7	40.0	13.3	15
12015	20.0	32.0	60.0	24.0	16.0	25
18021	9.1	18.2	54.5	9.1	36.4	11
TOT	15	28	54	24	24	102
PCT	14.7	27.5	52.9	23.5	23.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	16.7	1	16.7
40/44	.0	.0	.0	.0	.0	.0	16.7	.0	1	16.7
35/39	.0	.0	.0	.0	.0	.0	16.7	.0	1	16.7
30/33	.0	.0	.0	.0	16.7	16.7	.0	.0	2	33.3
25/29	.0	.0	.0	.0	.0	16.7	.0	.0	1	16.7
20/24	.0	.0	.0	.0	.0	.0	2	1	6	100.0
TOT	.0	.0	.0	.0	1	2	2	1	6	100.0
PCT	.0	.0	.0	.0	16.7	33.3	33.3	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0
.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	12.5	4.2	.0	.0
16.7	.0	.0	.0	.0	.0	16.7	.0	.0	.0
.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0
16.7	.0	.0	33.3	.0	.0	45.8	4.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	38	37	25	13	0	-1	-1	13.0	64
06009	44	43	34	14	-2	-2	-2	16.1	20
12015	32	31	28	12	-8	-8	-8	11.2	35
18021	46	45	45	9	-2	-2	-2	12.8	17
TOT	46	44	32	13	0	-8	-8	13.0	136

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	100.0	.0	83	1
06009	.0	.0	.0	66.7	33.3	.0	80	3
12015	.0	.0	100.0	.0	.0	.0	61	1
18021	.0	.0	.0	.0	.0	100.0	90	1
TOT	0	0	1	2	2	1	79	6

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TABLE 17

AREA 0017 TATAR STRAIT N
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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	NO FOG
4	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	2	.0	1.8
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.9
2	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	1	.0	.9
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	1	.0	.9
-4	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	1	.0	.9
-7/-8	.0	.0	.0	.0	.0	1.8	.9	.0	.0	.0	.0	.0	3	.0	2.7
-9/-10	.0	.0	.0	.0	.9	.9	.9	.0	.0	.0	.0	.0	3	.0	2.7
-11/-13	.0	.0	.0	1.8	2.7	4.5	.9	.0	.0	.0	.0	.0	11	.0	9.9
-14/-16	.0	.0	.9	6.3	3.6	.9	.0	.0	.0	.0	.0	.0	13	.9	10.8
-17/-19	.0	.0	4.5	9.9	1.8	.0	.0	.0	.0	.0	.0	.0	18	.0	16.2
-20/-22	.0	.9	6.3	4.5	2.7	.0	.0	.0	.0	.0	.0	.0	16	1.8	12.6
-23/-25	.0	9.0	2.7	1.8	.0	.0	.0	.0	.0	.0	.0	.0	15	3.6	9.9
-26/-30	10.8	1.8	3.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	19	5.4	11.7
<-30	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3.6	2.7
TOTAL	19	13	20	28	13	9	3	1	2	1	1	1	111	17	94
PCT	17.1	11.7	18.0	25.2	11.7	8.1	2.7	.9	1.8	.9	.9	.9	100.0	15.3	84.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.6	.0	.0	.0	3.9
3-4	.0	.0	4.9	.0	.0	4.9	.0	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	2.3	3.9	.0	6.2	.0	.0	.0	2.6	1.3	.0	.0	3.9
7	.0	.0	.0	5.2	2.6	7.8	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.0	1.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.0	.0	1.0	.0	.0	1.3	1.6	.0	.0	.0	2.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3
13-16	.0	.0	.0	1.3	3.9	5.2	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	8.1	12.7	6.5	.0	27.3	.0	4.2	5.5	4.2	2.6	.0	16.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	1.3	1.3	.0	.0	.0	3.9	.0	.0	1.3	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.9	1.3	.0	.0	.0	7.5	.0	1.3	1.3	.0	.0	.0	2.6

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	2.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.6	3.9	.0	.0	.0	.0	6.5	
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	1.3	2.6	.0	.0	.0	3.9	
3-4	.0	.0	5.2	.0	.0	.0	5.2	.0	3.9	.0	.0	.0	.0	3.9	
5-6	.0	.0	5.2	.0	.0	.0	5.2	.0	.0	6.8	.0	.0	.0	6.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.6	.0	.0	3.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	.0	.0	2.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	11.7	.0	.0	.0	11.7	2.6	9.1	11.0	5.2	.0	.0	27.9	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	10.4	.0	.0	.0	.0	16.9	
1-2	1.3	3.9	9.1	.0	.0	.0	14.3	
3-4	.0	5.2	13.0	1.3	.0	.0	19.5	
5-6	.0	.0	14.3	6.5	1.3	.0	22.1	
7	.0	.0	1.3	7.8	2.6	.0	11.7	
8-9	.0	.0	1.3	3.9	.0	.0	5.2	
10-11	.0	.0	1.3	2.6	.0	.0	3.9	
12	.0	.0	.0	.0	1.3	.0	1.3	
13-16	.0	.0	.0	1.3	3.9	.0	5.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	19.5	40.3	23.4	9.1	.0	100.0	77

PERIOD: (OVER-ALL) 1957-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.0	10.5	4.0	.8	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
6-7	.8	.0	1.6	1.6	.8	.8	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.8	.8	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
10-11	.0	.0	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
12-13	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	6.5	13.3	14.5	9.7	8.1	4.8	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	4
TOTAL	9	24	35	20	14	8	7	1	6	0	0	0	0	0	0	0	0	0	0	124	5
PCT	7.3	19.4	28.2	16.1	11.3	6.5	5.6	.8	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974AREA 0017 TATAR STRAIT N
50.1N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.1	1.7	2.1	.1	12.4	.0	.1	21.3	3.0	.0	5.3	.2	.2	.3	69.8
NE	7.4	3.1	1.9	.0	9.0	.0	.0	20.2	3.9	*	8.1	.0	.4	.2	67.5
E	7.1	.7	1.2	.0	2.3	.0	.0	11.2	2.1	.1	9.9	.0	.7	.0	76.0
SE	7.1	1.6	2.1	.0	3.9	.0	.0	14.6	2.9	.1	6.6	.1	.1	.0	75.6
S	4.1	1.4	1.9	.0	.9	.0	.0	8.2	1.3	*	10.8	.3	.2	.1	69.2
SW	2.6	1.1	1.2	.0	3.4	.0	.0	7.9	1.0	.1	15.1	.1	.3	.1	75.3
W	3.8	1.2	2.3	.4	5.8	.0	.0	13.1	3.2	.0	7.8	.0	.0	.0	75.9
NW	6.1	1.7	2.5	.4	10.9	.0	.1	21.4	3.0	.0	4.6	.2	.1	.3	70.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.9	.9	.0	2.5	.0	.0	6.1	1.3	.1	13.1	.0	.4	.0	79.0
TOT PCT	4.7	1.3	1.8	.2	7.0	.0	*	14.8	2.6	*	9.3	.1	.3	.2	72.6
TOT OBS:	7733														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.0	1.5	1.5	.2	6.8	.0	.0	13.7	2.4	*	11.3	.1	.3	.3	71.7
06009	4.1	1.2	1.6	.0	5.1	.0	*	12.1	3.5	.0	7.6	.1	*	.2	76.4
12013	5.2	1.2	1.8	.0	9.3	.0	.1	17.3	2.4	.1	6.4	.2	.2	.2	73.2
18021	5.7	1.4	2.4	.2	5.8	.0	.0	15.2	2.0	*	11.8	.1	.1	.0	70.7
TOT PCT	4.6	1.3	1.8	.1	6.9	.0	*	14.6	2.6	*	9.4	.1	.3	.2	72.8
TOT OBS:	8006														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	5.5	6.9	3.6	1.4	.1		18.3	15.8		15.2	25.8	21.5	26.7	15.3	22.1	15.3	20.2
NE	.7	4.4	3.1	.8	.3	.0		9.2	11.3		9.2	5.8	8.8	8.2	10.7	5.3	11.9	6.7
E	.8	4.2	1.9	.3	.0	.0		7.1	9.2		6.9	5.5	4.3	3.9	6.6	10.4	11.4	11.7
SE	.6	4.3	2.9	.3	.1	*		7.7	10.2		6.7	4.8	6.3	6.9	8.2	9.2	11.0	12.2
S	1.1	7.1	7.8	2.6	.3	.0		19.0	12.0		19.0	13.8	22.7	16.9	20.0	17.0	17.7	18.0
SW	.7	5.1	4.1	1.2	.1	.0		11.3	12.5		13.3	16.5	11.9	14.3	10.0	9.1	9.4	8.7
W	.5	2.7	3.0	1.0	.2	.0		7.4	11.6		7.9	10.0	5.9	7.7	7.7	6.6	4.9	9.0
NW	.8	4.3	6.0	2.1	.5	*		13.8	12.9		14.6	13.1	12.9	12.7	13.3	19.0	12.0	12.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.3							6.3	.0		7.3	2.7	5.7	3.3	8.2	1.4	5.8	2.5
TOT OBS							7556		12.6		2325	402	1146	292	1840	258	970	323
TOT PCT	12.2	37.6	39.4	11.8	3.0	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	3.3	6.9	5.1	2.4	.6		18.3	15.8	17.1	23.3	16.9	16.9
NE	2.6	4.8	1.2	.6	.1		9.2	11.3	8.6	8.5	9.8	10.5
E	2.6	3.9	.6	*	.0		7.1	9.2	6.7	4.4	6.9	11.5
SE	2.7	4.0	.9	.1	*		7.7	10.2	6.5	6.2	8.3	11.4
S	4.4	8.5	4.8	1.2	*		19.0	12.0	18.1	21.2	19.5	17.2
SW	3.1	5.1	2.6	.4	*		11.3	12.5	13.6	12.2	9.7	8.5
W	1.9	3.2	1.8	.4	.1		7.4	11.6	8.2	6.3	7.4	6.4
NW	2.6	5.7	4.3	1.0	.1		13.8	12.9	14.6	12.9	14.1	12.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.3						6.3	.0	6.7	5.2	7.3	4.9
TOT OBS						7556		12.6	2727	1438	2098	1293
TOT PCT	29.5	42.1	21.4	6.1	.9		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1970-1974

AREA 0017 TATAR STRAIT N
90.1N 141.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	6.7	6.2	37.8	36.4	10.7	2.3		8	12.1	100.0	2727
06009	5.2	5.0	34.2	37.2	14.6	3.7		.1	19.7	100.0	1438
12015	7.3	5.3	38.3	33.5	11.9	3.7		.1	12.6	100.0	2098
18021	4.9	7.6	39.4	34.4	10.7	2.7		.3	12.4	100.0	2293
TOT									12.6		7556
PCT	6.3	6.0	37.6	35.4	11.8	3.0		.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	1.2	5.0	7.1		6.0
NE	1.7	.5	2.9	4.7		6.1
E	1.8	.9	1.7	2.8		5.4
SE	1.9	.6	1.8	3.0		5.2
S	5.2	2.0	5.0	8.1		4.6
SW	2.9	1.4	3.4	3.7		4.8
W	2.2	1.0	2.2	1.9		4.8
NW	2.6	1.5	4.0	5.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	2.1	.8	1.6	2.6		4.3
TOT OBS					5843	5.4
TOT PCT	23.3	10.1	27.7	39.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.1	*	.3	.6	3.6	3.2	1.2	.2	.1	.1	5.9	
NE	.8	*	.2	.2	1.3	2.4	.8	.2	.2	.2	3.4	
E	.6	*	.1	.2	.8	1.1	.7	.2	*	.1	3.6	
SE	.4	*	.1	.2	1.1	1.0	.8	.1	.1	.1	3.3	
S	2.0	.1	.4	.6	2.6	2.7	1.3	.4	.4	.4	9.5	
SW	1.2	*	.1	.3	1.2	1.6	.9	.2	.1	.1	5.7	
W	.4	*	.1	.2	.7	1.1	.5	.1	.1	.1	3.9	
NW	.8	*	.3	.3	2.6	2.8	1.3	.2	.1	.1	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	*	.1	.1	.9	.9	.4	.1	.1	.2	3.5	
TOT OBS											5843	
TOT PCT	6.1	.2	1.4	2.7	14.9	16.7	7.9	1.6	1.2	1.3	43.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.6	2.4	2.6	2.6	2.6	2.6	2.6	2.6
= OR >4000	3.0	4.0	4.2	4.2	4.2	4.2	4.2	4.2
= OR >3500	8.7	11.1	11.9	12.0	12.0	12.0	12.0	12.0
= OR >2000	17.2	23.8	26.6	27.6	28.1	28.5	28.7	28.7
= OR >1000	22.0	33.4	38.6	40.9	42.1	43.0	43.4	43.4
= OR >600	22.6	35.0	40.9	43.3	44.8	45.7	46.1	46.1
= OR >300	22.8	35.6	41.8	44.3	45.9	46.9	47.4	47.4
= OR >150	22.8	35.6	41.9	44.5	46.1	47.1	47.6	47.6
= OR >0	22.9	36.3	43.5	46.5	49.0	51.8	55.2	56.1

TOTAL NUMBER OF OBS: 5996

PCT FREQ NM <5/8: 43.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.8	4.9	9.2	4.5	5.2	5.4	8.8	7.9	27.6	6337

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974AREA 0017 TATAR STRAIT N
50.1N 141.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.0	.4	*	.1	.1	.1	.2	.6	.0	.0	2.5	
	NO PCP	.6	.6	.3	.2	1.4	.7	.1	.2	.0	.6	4.8	
	TOT %	1.6	1.0	.3	.2	1.5	.8	.4	.8	.0	.6	7.3	
1/2<1	PCP	.5	.4	.1	.1	.1	.1	*	.3	.0	*	1.6	
	NO PCP	.1	*	*	*	.2	.1	.1	.1	.0	.1	.7	
	TOT %	.6	.4	.1	.2	.3	.2	.1	.4	.0	.1	2.3	
1<2	PCP	.8	.3	.1	.1	.3	*	.1	.9	.0	.1	2.6	
	NO PCP	.1	.1	.1	.1	.2	.2	*	.1	.0	.1	.9	
	TOT %	.8	.4	.2	.3	.4	.2	.1	1.0	.0	.2	3.5	
2<5	PCP	.8	.6	.3	.5	.6	.4	.2	.9	.0	.1	4.4	
	NO PCP	.9	.5	.5	.3	1.1	.6	.4	.8	.0	.3	4.8	
	TOT %	1.3	1.0	.8	.8	1.7	1.0	.6	1.7	.0	.4	9.2	
5<10	PCP	.9	.4	.3	.3	.7	.3	.3	.6	.0	.2	3.9	
	NO PCP	3.1	1.5	1.2	1.3	3.0	1.7	1.1	2.1	.0	.9	16.1	
	TOT %	4.1	2.0	1.5	1.6	3.8	2.0	1.3	2.7	.0	1.1	20.0	
10+	PCP	.2	.1	*	.1	.1	*	*	.1	.0	*	.6	
	NO PCP	9.2	4.5	4.3	4.6	11.4	7.2	4.9	7.0	.0	4.0	57.0	
	TOT %	9.4	4.5	4.3	4.6	11.5	7.3	4.9	7.1	.0	4.0	57.6	
TOT OBS													7751
TOT PCT													
		17.8	9.2	7.1	7.7	19.2	11.4	7.5	13.6	.0	6.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	*	.1	.1	.1	*	.1	.0	.6	1.3	
	4-10	.2	.5	.2	.1	.7	.5	.2	.2	.0		2.5	
	11-21	.3	.2	.1	*	.6	.2	.2	.3	.0		1.9	
	22+	1.0	.2	.0	*	.1	*	*	.3	.0		1.7	
	TOT %	1.6	1.0	.3	.2	1.5	.8	.4	.8	.0	.6	7.4	
1/2<1	0-3	*	.0	.0	*	*	*	*	*	.0	.1	.1	
	4-10	.1	.2	*	.1	.7	.1	*	.1	.0		.8	
	11-21	.3	.1	*	*	.1	.1	.1	.1	.0		.7	
	22+	.3	.1	*	*	*	*	.0	.2	.0		.7	
	TOT %	.6	.4	.1	.2	.3	.2	.1	.5	.0	.1	2.5	
1<2	0-3	.1	*	*	.0	.1	*	*	*	.0	.2	.4	
	4-10	.2	.3	.2	.1	.2	.1	.1	.2	.0		1.3	
	11-21	.3	.1	*	.1	.1	*	*	.6	.0		1.2	
	22+	.5	*	*	*	.1	.1	*	.3	.0		1.0	
	TOT %	1.0	.4	.2	.2	.5	.2	.2	1.1	.0	.2	3.9	
2<5	0-3	*	.1	.1	*	.1	*	*	.1	.0	.4	.9	
	4-10	.4	.4	.4	.4	.6	.5	.2	.5	.0		3.3	
	11-21	.5	.4	.3	.3	.7	.5	.2	.8	.0		3.8	
	22+	.6	.1	.1	.1	.3	.1	.2	.4	.0		1.9	
	TOT %	1.6	1.1	.8	.8	1.7	1.0	.7	1.8	.0	.4	9.9	
5<10	0-3	.2	.1	.2	.1	.2	.1	.1	.1	.0	1.1	2.2	
	4-10	1.2	.8	.7	.8	1.2	.8	.4	.9	.0		6.8	
	11-21	1.7	.7	.4	.6	1.6	.8	.4	1.1	.0		7.1	
	22+	1.1	.4	.1	.1	.7	.2	.4	.6	.0		3.6	
	TOT %	4.1	2.0	1.4	1.6	3.7	1.9	1.1	2.7	.0	1.1	19.8	
10+	0-3	.5	.3	.5	.3	.6	.4	.3	.5	.0	4.0	7.2	
	4-10	3.4	2.3	2.7	2.8	4.3	3.2	1.8	2.4	.0		22.8	
	11-21	3.7	1.8	1.0	1.4	4.7	2.6	2.1	3.1	.0		20.4	
	22+	1.6	.2	.1	.1	1.6	1.0	.6	.8	.0		6.0	
	TOT %	9.3	4.5	4.3	4.6	11.1	7.1	4.8	6.8	.0	4.0	56.5	
TOT OBS													7376
TOT PCT													
		18.2	9.4	7.2	7.6	18.9	11.3	7.5	13.7	.0	6.3	100.0	

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0017 TAYAR STRAIT N
50.1N 141.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.5	.1	1.5	3.1	13.7	19.7	7.9	1.3	1.4	1.9	58.2	41.8	2410
06009	6.2	.1	1.3	2.1	20.2	13.8	7.7	1.5	.9	.9	54.6	45.4	1202
12015	11.8	.4	1.5	2.2	11.8	14.8	7.3	1.7	1.3	1.0	53.8	46.2	1610
18021	9.1	.4	.9	2.8	15.8	12.1	7.0	2.5	.6	.8	52.0	48.0	886
TOT PCT	8.4	.2	1.4	2.7	14.5	16.5	7.7	1.6	1.2	1.4	55.6	44.4	6108 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.6	2.4	3.6	10.0	17.9	58.6	2948
06009	5.6	1.3	4.3	8.6	18.2	62.0	1550
12015	7.5	2.6	3.8	10.2	24.7	51.2	2280
18021	8.8	2.9	4.6	11.6	19.3	52.8	1385
TOT PCT	7.4	2.4	3.9	10.1	19.9	56.2	8163 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.6	13.2	25.6	35.6	38.7	2384
06009	6.3	8.7	20.5	35.6	43.9	1177
12015	11.8	15.9	27.3	29.2	43.5	1566
18021	9.2	13.8	27.5	30.2	42.2	869
TOT PCT	8.5	13.1	25.4	33.4	41.2	5996 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.1	
65/69	.0	.0	.1	.1	.4	.3	.3	.0	1.4	
60/64	.0	.2	.0	.1	.8	2.0	4.4	3.6	11.1	
55/59	.0	.1	.3	.4	.9	3.0	6.1	5.3	16.1	
50/54	.0	.0	.1	.9	1.0	2.0	3.6	3.3	11.0	
45/49	.0	.0	.3	.5	1.8	3.2	2.9	3.9	12.5	
40/44	.0	.0	.1	.2	1.9	2.5	3.8	2.7	11.4	
35/39	.0	.0	.1	.5	2.8	2.1	3.6	2.8	11.9	
30/34	.0	.1	.1	1.5	.8	1.0	.6	1.6	5.6	
25/29	.0	.0	.5	1.3	2.3	2.4	.9	.3	7.7	
20/24	.0	.0	.1	.8	1.4	.8	.5	.4	3.9	
15/19	.0	.0	.0	.9	1.9	2.2	.3	.3	5.6	
10/14	.0	.0	.0	.0	.0	1.8	.1	.0	1.9	
TOTAL PCT	.0	.4	1.7	7.3	15.9	23.4	27.1	24.3	1698	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.1	.0	.2	.2	.5	.2	.0	.0	.0	.1
60/64	1.3	.6	1.0	1.2	4.0	1.6	.4	.4	.0	.6
55/59	1.8	1.1	1.2	2.1	4.9	3.0	.4	.7	.0	.8
50/54	.8	1.1	1.0	.9	2.9	2.2	.6	.6	.0	.8
45/49	1.1	.8	.5	2.6	3.7	1.7	.8	.7	.0	.5
40/44	1.3	.5	.6	2.2	3.2	1.3	.8	1.5	.0	.1
35/39	1.5	.3	1.0	1.3	2.6	1.5	2.4	1.1	.0	.2
30/34	1.7	1.1	.2	.4	.6	.2	.5	.8	.0	.1
25/29	2.8	1.4	.8	1.2	.0	.5	.3	.6	.0	.1
20/24	.8	.6	.7	.6	.1	.0	.3	.9	.0	.0
15/19	1.8	.1	.0	.1	.0	.0	2.3	1.3	.0	.0
10/14	.1	.0	.0	.0	.0	.0	1.7	.1	.0	.0
TOTAL	15.0	7.8	7.1	12.8	22.6	12.1	10.4	8.8	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	58	53	42	31	28	-1	49.3	2945
06009	85	60	54	43	32	28	-2	50.8	1543
12015	82	55	51	41	30	26	-0	49.0	2272
18021	80	57	53	40	30	26	2	47.4	1392
TOT	85	59	53	42	31	26	-8	49.2	8152

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.1	15.4	21.1	33.7	17.8	78	518		
06009	.0	11.2	16.2	26.3	27.5	18.9	79	430		
12015	.0	10.1	23.1	19.4	21.2	26.2	82	392		
18021	.0	5.1	12.1	19.9	24.2	38.8	84	385		
TOT	0	140	225	359	517	484	81	1725		

MARCH - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1970-1974

TABLE 17

AREA 0017 TAYAR STRAIT N
50.1N 141.7EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FUG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	.1	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	.2	1.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	.2	2.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	.4	3.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	.4	1.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	396	.5	4.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	490	.6	5.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276	.3	3.1
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	636	.9	6.9
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	328	.5	3.5
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	775	1.0	8.3
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	326	.6	3.7
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	592	.3	6.9
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	247	.2	3.5
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	425	.4	5.3
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	.2	4.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	.0	1.7
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	302	.2	4.5
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	202	.1	3.3
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	.1	3.6
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	.2	3.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	.1	3.3
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	.2	2.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	.4	1.6
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.5	1.5
<-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.4	.5
TOTAL	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6793		
PCT	1.8	1.7	2.6	4.0	3.3	3.7	5.7	5.1	6.5	9.2	7.6	9.0	7.7	9.1	10.9	8.2	2.9	.7	.3	.1	*	*	100.0	9.4	90.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.3	.3	.0	.0	.0	3.1	<1	.5	2.0	.3	.0	.0	.0	2.8
1-2	.0	1.6	2.5	.0	.0	.0	4.2	1-2	.0	1.3	1.4	.0	.0	.0	2.7
3-4	.0	.4	3.2	.5	.0	.0	4.0	3-4	.0	.3	.6	.1	.0	.0	1.1
5-6	.0	.2	1.6	1.2	.0	.0	2.9	5-6	.0	.1	.2	.4	.1	.0	.8
7	.0	.0	.3	1.4	.4	.0	2.1	7	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.0	.3	.4	.2	.0	.9	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.8	.2	.0	1.0	10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.1	.3	.0	.4	12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.2	.5	.0	.8	13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.5	8.2	4.6	1.6	.0	19.4	TOT PCT	.5	3.8	2.9	.7	.3	.0	8.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.2	.2	.0	.0	.0	2.6	<1	.2	2.6	.3	.0	.0	.0	3.1
1-2	.2	.8	1.0	.0	.0	.0	1.9	1-2	.0	1.1	1.3	.0	.0	.0	2.5
3-4	.0	.1	.3	.1	.0	.0	.6	3-4	.0	.2	.7	.0	.0	.0	.9
5-6	.0	.0	.1	.0	.0	.0	.1	5-6	.0	.1	.2	.2	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	1.6	.2	.0	.0	5.3	TOT PCT	.2	4.0	2.5	.3	.1	.0	7.1

PERIOD: (OVER-ALL) 1963-1974

MARCH - DECEMBER

AREA 0017 TATAR STRAIT N
50.1N 141.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.6	.3	.0	.0	.0	3.6	.4	2.1	.1	.0	.0	.0	2.5
1-2	.1	3.5	2.9	.0	.0	.0	6.4	.1	2.0	1.4	.0	.0	.0	3.5
3-4	.0	.5	2.9	.3	.0	.0	3.8	.0	.2	1.7	.4	.0	.0	2.3
5-6	.0	.2	1.8	.8	.0	.0	2.8	.0	.1	1.0	.4	.0	.0	1.6
7	.0	.0	.5	.9	.0	.0	1.4	.0	.0	.3	.3	.0	.0	.7
8-9	.0	.0	.3	.6	.1	.0	1.0	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.9	8.8	2.9	.3	.0	19.7	.4	4.5	4.5	1.5	.1	.0	11.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.6	.2	.0	.0	.0	2.0	.6	2.1	.2	.0	.0	.0	2.8	
1-2	.1	.8	1.1	.0	.0	.0	1.9	.0	1.4	1.8	.0	.0	.0	3.2	
3-4	.0	.1	1.4	.2	.0	.0	1.7	.0	.5	1.7	.3	.0	.0	2.5	
5-6	.0	.1	1.0	.3	.0	.0	1.3	.0	.1	1.8	.4	.0	.0	2.3	
7	.0	.0	.1	.1	.1	.0	.3	.0	.0	.6	1.0	.1	.0	1.7	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.5	.0	.0	.6	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.5	3.7	.9	.1	.0	7.6	.7	4.1	6.2	2.5	.3	.0	13.8	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	17.5	1.8	.0	.0	.0	30.5	
1-2	.5	12.6	13.3	.0	.0	.0	26.4	
3-4	.0	2.4	12.5	2.0	.0	.0	17.0	
5-6	.0	.7	7.7	3.7	.3	.0	12.3	
7	.0	.1	2.0	3.8	.5	.0	6.4	
8-9	.0	.0	.8	1.9	.4	.0	3.2	
10-11	.0	.0	.2	1.4	.3	.0	1.9	
12	.0	.0	.0	.3	.6	.0	.9	
13-16	.0	.0	.2	.5	.6	.0	1.3	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.8	33.4	38.5	13.5	2.9	.0	100.0	3887

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	10.4	9.3	6.1	1.7	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1893	3
6-7	.1	.9	2.2	2.2	1.9	1.0	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	599	5
8-9	.0	.2	.5	.6	.5	.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	6
10-11	.0	.6	.2	.2	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	5
12-13	.0	.0	.7	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	5
>13	.0	.0	.0	.3	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	11
INDET	15.6	10.8	14.6	6.9	4.1	1.6	.4	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3373	3
TOTAL																				6136	3
PCT	16.5	22.9	27.4	16.3	8.7	3.7	2.3	.8	1.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

TABLE 20

AREA 0017 TATAR STRAIT N
50.1N 141.7E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	4	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	6	.1
69/70	.0	.0	.0	.0	.0	.0	.1	.4	.3	.0	.0	.0	8	.1
67/68	.0	.0	.0	.0	.0	.1	1.0	3.5	.6	.0	.0	.0	57	.8
65/66	.0	.0	.0	.0	.0	.1	1.2	6.8	1.3	.0	.0	.0	102	1.4
63/64	.0	.0	.0	.0	.0	.4	7.6	24.5	8.3	.0	.0	.0	448	6.3
61/62	.0	.0	.0	.0	.0	.6	9.1	28.8	11.9	.2	.0	.0	592	7.8
59/60	.0	.0	.0	.0	.3	1.8	20.9	18.2	16.3	1.7	.0	.0	650	9.1
57/58	.0	.0	.0	.0	.2	2.9	17.5	7.9	22.5	2.3	.0	.0	592	8.3
55/56	.0	.0	.0	.0	.2	5.7	13.8	3.0	14.7	5.5	.2	.0	468	6.6
53/54	.0	.0	.0	.0	.5	9.4	11.7	2.3	9.9	8.2	.2	.0	445	6.3
51/52	.0	.0	.0	.0	.5	12.8	7.4	1.0	6.2	14.2	.4	.0	435	6.1
49/50	.0	.0	.0	.0	1.2	13.2	5.0	.8	3.5	16.3	1.1	.0	408	5.7
47/48	.0	.0	.0	.0	3.2	16.0	2.8	.8	.9	8.2	2.8	.0	321	4.5
45/46	.0	.0	.0	.6	14.5	15.7	1.3	.5	2.0	15.2	6.2	.0	482	6.8
43/44	.0	.0	1.2	.6	12.2	7.1	.2	.5	.3	6.8	5.7	.8	260	3.7
41/42	.0	.0	.8	3.5	12.2	5.2	.3	.1	.3	7.8	8.3	.8	268	3.8
39/40	.0	.0	.4	1.9	19.6	5.4	.1	.0	.4	6.3	11.0	3.2	312	4.4
37/38	.0	.0	1.6	13.1	18.7	1.7	.1	.0	.7	2.8	12.3	7.5	285	4.0
35/36	.0	.0	3.5	24.3	9.9	1.7	.0	.0	.3	2.8	8.5	10.0	236	3.3
33/34	.0	.0	20.9	26.5	5.1	1.0	.0	.0	.1	1.0	16.3	10.0	280	3.9
31/32	.0	.0	41.1	26.5	.9	.1	.0	.0	.1	.6	16.7	31.7	320	4.5
29/30	.0	.0	23.3	1.6	.8	.0	.0	.0	.0	.2	7.2	26.7	138	1.9
27/28	.0	.0	7.4	1.3	.0	.0	.0	.0	.0	.0	1.1	9.2	39	.5
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	0	0	238	313	647	994	1085	1077	1174	979	472	120	7119	100.0
MEAN			31.7	34.4	40.4	48.2	56.7	61.0	57.0	47.4	37.2	32.4	44.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DBS
JAN										
FEB										
MAR	1012	1008	1009	1008	1011	1007	1007	1005	1010	289
APR	1010	1006	1011	1003	1011	1007	1010	1007	1010	445
MAY	1010	1011	1011	1011	1011	1008	1011	1010	1011	738
JUN	1010	1009	1009	1009	1010	1008	1010	1007	1010	1080
JUL	1008	1008	1008	1006	1009	1008	1008	1008	1008	1247
AUG	1010	1007	1010	1008	1009	1008	1010	1009	1010	1233
SEP	1013	1011	1012	1010	1012	1010	1013	1010	1012	1311
OCT	1014	1007	1013	1009	1014	1009	1015	1009	1014	1066
NOV	1011	1007	1010	1007	1012	1006	1010	1007	1009	570
DEC	1011	1010	1010	1011	1011	1002	1011	1014	1010	159
ANN	1011	1008	1010	1008	1011	1007	1011	1009	1010	8138
DBS	2575	365	1253	295	2005	258	1065	322		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN									
FEB									
MAR	983	986	997	1005	1009	1014	1025	1031	1032
APR	981	983	990	1004	1010	1016	1026	1028	1031
MAY	986	989	997	1006	1011	1016	1022	1025	1026
JUN	989	995	1001	1006	1010	1013	1018	1021	1025
JUL	989	993	999	1005	1008	1011	1015	1018	1022
AUG	988	992	999	1005	1010	1014	1019	1021	1024
SEP	985	990	998	1008	1013	1017	1024	1029	1032
OCT	984	992	1000	1009	1014	1019	1025	1029	1030
NOV	983	987	992	1005	1010	1015	1022	1026	1027
DEC	981	985	994	1007	1012	1016	1020	1026	1027

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0018 TATAR STRAIT S
47.9N 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	40.2	.0	.0	40.2	1.4	.0	2.4	.0	.0	.0	56.0
NE	.0	.0	.0	.0	21.5	.0	.0	21.5	.5	.0	.9	.0	.0	.0	77.1
E	2.3	.0	.0	.0	17.1	.0	.0	19.4	5.4	.0	9.3	.0	.0	.0	65.9
SE	1.6	.0	.0	.0	18.0	.0	.0	19.7	6.6	.0	.0	.0	.0	.0	73.8
S	.0	.0	.0	.0	32.1	.0	.0	32.1	.0	.0	.0	.0	.0	.0	67.9
SW	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	.0	95.2
W	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	1.9	.0	.0	.0	91.3
NW	.0	.0	.0	.0	18.2	.0	.0	18.2	2.3	.0	.7	.0	.0	.0	78.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.2	.0	.0	.0	25.8	.2	.0	26.2	2.1	.0	2.1	.0	.0	.0	69.6
TOT OBS:	427														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOURLY (GMT)	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG SNOW	DUST SNOW	NO SIG WEA
00003	.8	.0	.0	.0	27.8	.0	.0	28.6	3.0	.0	3.0	.0	.0	.0	.0	65.4
06009	.0	.0	.0	.0	22.9	.0	.0	22.9	2.8	.0	1.8	.0	.0	.0	.0	72.5
12015	.0	.0	.0	.0	27.8	.7	.0	28.5	2.8	.0	.7	.0	.0	.0	.0	68.1
18021	.0	.0	.0	.0	22.8	.0	.0	22.8	1.3	.0	3.8	1.3	.0	.0	.0	70.9
TOT PCT	.2	.0	.0	.0	25.8	.2	.0	26.2	2.6	.0	2.2	.2	.0	.0	.0	68.8
TOT OBS:	465															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	6.4	19.9	14.4	3.6	.2		45.2	20.4		39.9	46.3	50.8	45.0	49.7	42.6	41.4	43.9
NE	.1	4.5	9.7	2.3	.5	.0		13.0	15.4		12.5	12.5	14.5	11.7	12.9	13.8	12.1	13.3
E	.5	4.0	2.4	.2	.0	.0		7.2	9.7		9.2	10.3	.0	11.7	2.9	12.8	.0	14.3
SE	.8	1.1	1.5	.1	.0	.0		3.5	9.2		2.7	5.1	2.4	8.3	2.4	4.3	.0	5.1
S	.2	.5	.8	.0	.0	.0		1.4	10.3		.9	5.1	2.4	.0	1.2	2.1	.0	.0
SW	.7	1.2	1.4	.5	.0	.0		3.8	12.2		4.8	.0	4.4	6.7	3.8	4.3	3.4	2.0
W	.0	1.3	3.7	.8	.0	.0		5.8	14.4		8.0	10.3	7.7	3.3	4.1	4.3	2.6	4.1
NW	.0	4.9	9.9	2.5	.4	.0		17.7	15.5		19.6	7.4	12.9	13.3	19.4	16.0	37.1	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		2.4	2.9	4.8	.0	3.5	.0	3.4	.0
TOT OBS	22	100	190	88	19	1	420		16.4		84	34	62	30	85	47	29	49
TOT PCT	5.2	23.8	45.2	21.0	4.5	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	12	18
N	2.7	12.5	20.8	7.1	2.1		45.2	20.4	41.7	48.9	47.2	42.9
NE	2.2	5.4	4.5	.8	.2		13.0	15.4	12.5	13.6	13.3	12.8
E	2.5	4.0	.7	.0	.0		7.2	9.7	9.5	3.8	6.4	9.0
SE	1.8	1.1	.5	.0	.0		3.5	9.2	3.4	4.3	3.0	3.2
S	.7	.5	.2	.0	.0		1.4	10.3	2.1	1.6	1.5	.0
SW	.8	1.8	1.1	.0	.0		3.8	12.2	3.4	5.2	4.0	2.6
W	.5	3.9	1.4	.0	.0		5.8	14.4	8.7	6.3	4.2	3.5
NW	2.3	8.3	3.6	1.4	.1		17.7	15.5	16.1	13.0	18.2	24.7
VAR	.0						.0	.0	.0	.0	.0	.0
CALM	2.4				.0		2.4	.0	2.5	3.3	2.3	1.3
TOT OBS	67	158	146	39	10	420		16.4	118	92	132	78
TOT PCT	16.0	37.6	34.8	9.3	2.4		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1939-1974

JANUARY

AREA 0018 TATAR STRAIT S
47.9N 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.5	1.7	17.8	54.2	19.5	4.2	.0	17.1	100.0	118
0400	3.3	5.4	18.5	31.5	34.8	5.4	1.1	18.5	100.0	92
1215	2.3	3.0	28.0	43.2	18.2	5.3	.0	19.7	100.0	132
1821	1.3	1.3	32.1	51.3	11.5	2.6	.0	14.2	100.0	78
TOT	10	12	100	190	88	19	1	16.4		420
PCT	2.4	2.9	23.8	45.2	21.0	4.5	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.5	3.8	12.9	20.3		6.1
NE	4.1	1.3	2.3	4.8		4.9
E	1.7	.6	1.9	1.2		4.7
SE	.1	.1	1.3	1.3		6.8
S	.3	.0	.7	1.0		6.6
SW	2.0	.5	1.3	1.9		4.8
W	3.2	.7	1.5	1.4		3.8
NW	10.0	1.8	3.2	3.8		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.3	.0	1.2	.0		2.0
TOT OBS	76	23	68	93	260	5.0
TOT PCT	29.2	8.8	26.2	35.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5080	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
3.7	.0	1.1	4.7	6.8	10.8	2.2	1.2	.0	.4	11.7	
.4	.0	.0	.1	1.8	2.2	.1	.4	.4	.0	7.2	
.0	.0	.0	.0	.8	.4	.0	.4	.0	.4	3.8	
.0	.0	.0	.1	.8	1.3	.1	.0	.0	.0	.6	
.0	.0	.0	.7	.0	.7	.3	.0	.0	.0	.3	
.0	.0	.0	.0	.8	1.3	.4	.8	.0	.0	2.5	
.0	.0	.0	.4	.7	1.9	.0	.0	.0	.0	3.8	
.2	.0	.1	.2	1.8	2.7	.0	.4	.0	.0	12.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.1	
11	0	3	14	36	55	8	7	2	1	121	260
4.2	.0	1.2	6.2	13.8	21.2	3.1	2.7	.8	.4	46.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>OR >5000	3.1	3.5	3.5	3.5	3.8	3.8	3.8	3.8
>OR >3500	5.2	6.3	6.9	6.9	7.3	7.3	7.3	7.3
>OR >2000	14.9	22.6	25.3	26.7	28.8	28.8	29.2	29.2
>OR >1000	20.8	31.3	36.1	38.9	41.3	42.0	42.7	42.7
>OR >600	23.6	34.0	40.6	43.4	46.5	47.9	48.6	48.6
>OR >300	24.7	35.1	41.7	44.4	47.6	49.0	49.7	49.7
>OR >150	24.7	35.1	41.7	44.4	47.6	49.0	49.7	49.7
>OR >0	24.7	35.8	44.4	48.3	51.7	53.5	54.9	54.9
TOTAL	71	103	128	139	149	154	158	158

TOTAL NUMBER OF OBS: 288

PCT FREQ NH <5/8: 45.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
19.4	9.9	8.9	4.6	5.6	5.3	8.6	7.2	29.6	4.9
									304

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	1.6	.7	.2	.2	.2	.0	.0	.0	.0	.0	3.0		
	NO PCP	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.5		
	TOT %	1.9	.8	.4	.2	.2	.0	.0	.0	.0	.0	3.5		
1/2<1	PCP	4.2	.5	.5	.2	.0	.0	.0	.7	.0	.0	6.1		
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2		
	TOT %	4.4	.5	.5	.2	.0	.0	.0	.8	.0	.0	6.3		
1<2	PCP	3.5	.6	.0	.1	.1	.0	.0	.4	.0	.0	4.7		
	NO PCP	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5		
	TOT %	3.7	.6	.2	.1	.1	.0	.0	.4	.0	.0	5.2		
2<5	PCP	4.2	.4	.4	.1	.2	.0	.0	1.7	.0	.0	6.8		
	NO PCP	1.4	.2	.0	.2	.0	.0	.2	.2	.0	.0	2.3		
	TOT %	5.6	.6	.4	.3	.2	.0	.2	1.9	.0	.0	9.1		
5<10	PCP	2.7	.5	.0	.0	.0	.2	.0	.3	.0	.0	3.7		
	NO PCP	5.2	3.1	.7	1.1	.5	.8	.8	2.9	.0	.2	15.2		
	TOT %	7.9	3.6	.7	1.1	.5	1.0	.8	3.2	.0	.2	19.0		
10+	PCP	1.4	.2	.2	.0	.0	.0	.0	.2	.0	.0	2.1		
	NO PCP	18.6	6.2	5.0	1.6	.6	3.9	5.0	11.5	.0	2.3	54.8		
	TOT %	20.0	6.4	5.2	1.6	.6	3.9	5.0	11.8	.0	2.3	56.9		
TOT OBS														
TOT PCT		43.4	12.5	7.4	3.5	1.6	4.9	6.1	18.0	.0	2.6	100.0	427	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5		
	11-21	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	1.0		
	22+	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2		
	TOT %	1.9	.2	.2	.2	.0	.0	.0	.0	.0	.0	2.6		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.2	.0	.2	.2	.0	.0	.0	.1	.0	.0	.7		
	11-21	1.4	.2	.2	.0	.0	.0	.0	.5	.0	.0	2.4		
	22+	2.9	.2	.0	.0	.0	.0	.0	.2	.0	.0	3.4		
	TOT %	4.5	.5	.5	.2	.0	.0	.0	.8	.0	.0	6.5		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5		
	11-21	1.5	.2	.0	.1	.1	.0	.0	.5	.0	.0	2.4		
	22+	2.8	.5	.0	.0	.0	.0	.0	.1	.0	.0	3.4		
	TOT %	4.5	.9	.0	.1	.1	.0	.0	.6	.0	.0	6.3		
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.7	.6	.7	.1	.0	.0	.0	.2	.0	.0	2.4		
	11-21	3.8	.0	.0	.1	.2	.0	.2	.8	.0	.0	5.0		
	22+	2.8	.1	.0	.0	.0	.0	.0	1.0	.0	.0	3.8		
	TOT %	7.3	.7	.7	.2	.2	.0	.2	2.0	.0	.0	11.3		
5<10	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5		
	4-10	1.1	1.2	.2	.5	.4	.1	.0	1.3	.0	.0	4.8		
	11-21	4.0	1.1	.4	.6	.1	.4	.7	1.6	.0	.0	8.9		
	22+	2.5	1.4	.1	.0	.0	.3	.2	.1	.0	.0	4.6		
	TOT %	7.5	3.7	.7	1.1	.5	.8	.8	3.0	.0	.2	18.8		
10+	0-3	.4	.1	.5	.8	.2	.7	.0	.0	.0	2.2	4.8		
	4-10	4.0	2.0	2.9	.2	.1	1.1	1.3	3.4	.0	.0	14.9		
	11-21	8.9	3.9	1.6	.5	.4	1.0	2.8	6.4	.0	.0	23.3		
	22+	6.1	.6	.1	.1	.0	.2	.7	1.5	.0	.0	9.4		
	TOT %	19.4	6.6	5.1	1.6	.7	3.1	4.7	11.2	.0	2.2	54.5		
TOT OBS														416
TOT PCT		43.4	12.7	7.3	3.5	1.4	3.8	5.8	17.6	.0	2.4	100.0		

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.7	.0	.0	1.9	19.0	21.0	1.0	1.9	1.0	.0	51.4	48.6	105
06009	4.1	.0	2.7	8.2	19.2	15.1	8.2	5.5	.0	.0	63.0	37.0	73
12015	7.0	.0	1.2	7.0	5.8	29.1	2.3	1.2	.0	2.3	55.8	44.2	86
18021	.0	.0	.0	10.0	3.3	16.7	3.3	.0	3.3	.0	36.7	63.3	30
TOT	15	0	3	17	40	63	10	7	2	2	159	135	294
PCT	5.1	.0	1.0	5.8	13.6	21.4	3.4	2.4	.7	.7	54.1	43.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.7	7.5	6.0	8.2	17.2	57.5	134
06009	2.7	4.4	9.7	10.6	14.2	58.4	113
12015	3.3	6.0	4.7	14.7	25.3	46.0	150
18021	4.7	7.1	4.7	10.6	18.8	54.1	85
TOT	17	30	30	54	93	258	482
PCT	3.5	6.2	6.2	11.2	19.3	53.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.9	12.7	21.6	31.4	47.1	102
06009	4.1	9.6	27.4	37.0	35.6	73
12015	7.1	14.3	31.0	29.8	39.3	84
18021	.0	3.4	20.7	20.7	58.6	29
TOT	15	33	74	90	124	288
PCT	5.2	11.5	25.7	31.3	43.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	3.6	.0	10.7	.0	3.6	.0	5	17.9
20/24	.0	.0	.0	3.6	.0	7.1	3.6	3.6	5	17.9
15/19	.0	.0	.0	14.3	17.9	17.9	14.3	.0	18	64.3
TOTAL	0	0	1	4	8	7	6	1	28	100.0
PCT	.0	.0	3.6	17.9	28.6	25.0	21.4	3.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
6.3	.9	3.6	.0	.0	7.1	.0	.0	.0	.0
7.1	3.6	3.6	.0	.0	.0	.0	3.6	.0	.0
25.9	16.1	3.6	.0	.0	3.6	2.7	12.5	.0	.0
39.3	20.5	10.7	.0	.0	10.7	2.7	16.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	39	38	32	19	5	0	-6	19.1	133
06009	48	45	34	19	7	1	1	20.8	109
12015	46	45	34	21	6	1	0	20.7	147
18021	39	38	30	18	4	0	0	17.7	85
TOT	48	42	34	19	5	1	-6	19.7	474

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	22.2	33.3	33.3	11.1	.0	.0	.0	68	9
06009	.0	22.2	33.3	22.2	11.1	11.1	.0	.0	70	9
12015	.0	25.0	.0	25.0	50.0	.0	.0	.0	77	4
18021	.0	16.7	33.3	16.7	33.3	.0	.0	.0	72	6
TOT	0	6	8	7	6	1	71	28		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.5
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	4	.0	1.1
2	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.3	.0	3	.0	.8
1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	2	.0	.5
0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	.3	4	.0	1.1
-1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	2	.0	.5
-2	.0	.0	.0	.0	.0	.0	.5	1.9	.3	.0	.0	.0	10	.0	2.7
-3	.0	.0	.0	.0	.0	.0	.3	1.4	.3	.0	.0	.0	7	.0	1.9
-4	.0	.0	.0	.0	.0	.0	1.6	.8	.3	.3	.0	.0	11	.0	3.0
-5	.0	.0	.0	.0	.0	.3	1.9	.8	.5	.0	.0	.0	13	.0	3.6
-6	.0	.0	.0	.0	.0	.3	1.6	.3	.0	.0	.0	.0	8	.0	2.2
-7/-8	.0	.0	.0	.0	.0	.3	4.4	.8	.5	.0	.0	.0	23	.0	6.3
-9/-10	.0	.0	.0	.0	1.4	3.3	1.1	1.4	.3	.0	.0	.0	27	.3	7.1
-11/-13	.0	.0	.0	1.4	4.9	6.0	3.0	.9	.0	.0	.0	.0	58	.0	15.9
-14/-16	.0	.0	.8	4.7	4.1	3.6	1.4	.0	.0	.0	.0	.0	53	.5	14.1
-17/-19	.0	.0	2.2	3.8	4.9	1.4	.3	.0	.0	.0	.0	.0	46	.5	12.1
-20/-22	.0	2.5	1.9	.5	1.6	1.1	.3	.0	.0	.0	.0	.0	29	.3	7.7
-23/-25	.0	2.2	3.3	2.7	.0	.3	.0	.0	.0	.0	.0	.0	31	.5	8.0
-26/-30	1.4	2.7	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	21	.5	5.2
<-30	1.1	.5	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	7	.0	1.9
TOTAL	9	29	33	50	64	61	60	33	12	6	4	3	364	10	354
PCT	2.5	8.0	9.1	13.7	17.6	16.8	16.5	9.1	3.3	1.6	1.1	.8	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.9	.0	.0	.0	3.1	.0	1.0	.1	.0	.0	.0	1.1
1-2	.0	4.0	3.4	.0	.0	.0	7.4	.0	2.0	3.3	.0	.0	.0	5.3
3-4	.0	.8	6.9	3.4	.0	.0	11.0	.0	.5	.8	.0	.0	.0	1.3
5-6	.0	.0	2.8	3.1	.0	.0	5.9	.0	.5	.1	.6	.0	.0	1.3
7	.0	.9	.9	2.9	.0	.0	4.6	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	3.3	2.0	.5	.0	5.8	.0	.0	.5	1.0	.0	.0	1.5
10-11	.0	.0	.9	2.0	.0	.0	2.9	.0	.0	.0	.0	.5	.0	.5
12	.0	.0	.0	1.4	1.0	.0	2.4	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.5	2.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.5	.5	1.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.9	19.4	15.3	4.0	.5	47.0	.0	4.0	5.3	1.8	.5	.0	11.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.5	1.6	.0	.0	.0	2.1	.0	.0	.5	.0	.0	.0	.5
3-4	.0	.5	.5	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.5	.5	.0	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	3.1	.0	.0	.0	5.6	.6	.0	1.9	.0	.0	.0	2.5

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0016 TATAR STRAIT S
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.6	.0	.0	.0	2.6
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.5	.1	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.0	1.1	.0	.0	.0	1.5	.0	2.3	2.1	.1	.0	.0	4.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	2.3	.0	.0	.0	.0	2.3	
1-2	.0	.0	1.6	.0	.0	.0	1.6	.0	1.5	3.5	.0	.0	.0	5.0	
3-4	.0	.0	1.1	.4	.0	.0	1.5	.0	.8	3.8	.1	.0	.0	4.6	
5-6	.0	.0	1.5	.4	.0	.0	1.9	.0	.0	1.1	.9	.0	.0	2.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.6	.0	.0	1.4	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.3	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	4.6	.8	.0	.0	6.1	.0	4.6	9.3	2.1	.5	.0	16.8	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	7.5	1.0	.0	.0	.0	13.5	
1-2	.5	10.0	14.5	.0	.0	.0	25.0	
3-4	.0	2.5	15.5	4.0	.0	.0	22.0	
5-6	.0	.5	7.0	5.0	.0	.0	12.5	
7	.0	1.5	3.0	3.5	.0	.0	8.0	
8-9	.0	.0	4.5	3.0	1.0	.0	8.5	
10-11	.0	.0	1.0	2.0	.5	.0	3.5	
12	.0	.0	.0	2.0	1.0	.0	3.0	
13-16	.0	.0	.0	.5	2.0	.0	2.5	
17-19	.0	.0	.0	.0	.5	.5	1.0	
20-22	.0	.0	.5	.0	.0	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	22.0	47.0	20.0	5.0	.5	100.0	200

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	9.5	12.8	6.6	5.4	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.89	4
6-7	.0	2.1	1.7	3.3	4.3	4.1	2.3	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.46	7
8-9	.0	.4	1.7	1.2	1.2	1.7	.0	1.2	.8	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.24	9
10-11	.0	1.2	.4	1.7	.4	.4	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.13	7
12-13	.0	.0	.4	.0	.0	.4	.0	.0	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	12
>13	.0	.0	.0	.4	.0	.0	.0	.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	12
INDT	8.3	6.2	3.3	2.3	.4	1.2	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.58	3
TOTAL	22	47	49	38	29	21	10	7	10	6	2	1	0	0	0	0	0	0	0	242	5
PCT	9.1	19.4	20.2	15.7	12.0	8.7	4.1	2.9	4.1	2.5	.8	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1933-1974

FEBRUARY

AREA 0018 TATAR STRAIT S
47.9N 141.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.5	.0	.0	.0	24.3	.0	.0	24.3	3.2	.0	1.7	.0	.4	.5	69.5
NE	2.3	.0	.0	.0	28.3	.0	.0	30.6	6.2	.4	5.0	.0	1.6	.0	56.2
E	1.7	.0	.0	.0	40.2	.0	.0	41.9	3.4	2.6	.0	.0	.0	.0	52.1
SE	.0	.0	10.0	.0	36.0	.0	.0	46.0	.0	.0	.0	.0	.0	.0	54.0
S	.0	.0	9.4	.0	39.1	.0	.0	48.4	.0	.0	6.3	.0	.0	.0	45.3
SW	.0	.0	1.0	.0	17.3	.0	.0	18.3	1.0	.0	4.8	.0	.0	.0	76.0
W	.0	.0	.0	.0	10.2	.0	.0	10.2	2.2	.0	2.2	.0	.0	.0	85.4
NW	.0	.0	.0	.0	12.9	.0	.0	12.9	3.0	.0	1.9	.0	.2	.0	82.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6	.0	.6	.0	21.9	.0	.0	23.0	3.1	.2	2.3	.0	.4	.2	70.6
TOT OBS:	521														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.6	.0	.6	.0	17.7	.0	.0	19.0	5.1	.6	3.8	.0	1.3	.0	70.3
06009	.0	.0	.0	.0	25.8	.0	.0	25.8	3.9	.0	2.3	.0	.0	.0	68.0
12015	.6	.0	1.2	.0	19.9	.0	.0	21.7	2.5	.0	2.5	.0	.0	.0	72.7
18021	1.1	.0	.0	.0	25.6	.0	.0	26.7	.0	.0	.0	.0	.0	.0	73.3
TOT PCT	.6	.0	.6	.0	21.6	.0	.0	22.7	3.2	.2	2.4	.0	.4	.2	70.9
TOT OBS:	537														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	7.1	19.3	10.9	3.8	.4		41.8	19.9		39.5	50.0	43.9	55.2	37.4	34.4	37.5	55.2
NE	.6	3.9	3.9	1.8	.9	.3		11.3	15.7		7.9	17.6	9.0	20.7	10.0	13.3	9.9	17.2
E	.6	3.1	1.6	.6	.4	.2		6.4	13.5		5.2	5.4	8.7	5.2	5.3	4.4	5.6	3.4
SE	.0	1.6	.7	.3	.0	.0		2.5	11.7		2.1	2.7	.3	.0	2.4	12.2	.0	3.4
S	.0	.8	1.5	.8	.0	.0		3.0	15.6		2.3	.0	3.5	3.4	2.7	6.7	3.4	1.7
SW	.3	2.1	1.5	.4	.0	.0		4.3	11.6		3.3	3.4	6.4	3.4	3.4	10.0	.4	5.2
W	.5	3.4	1.9	.8	.0	.0		6.1	11.5		4.2	7.4	6.4	6.9	9.0	8.9	3.9	.0
NW	.3	8.5	10.1	3.0	.4	.0		22.3	14.2		30.6	13.5	20.6	5.2	24.0	10.0	35.8	10.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		1.9	.0	1.2	.0	5.8	.0	3.4	3.4
TOT OBS	24	150	198	91	27	4	494		16.0		107	37	86	29	103	45	58	29
TOT PCT	4.9	30.4	40.1	18.4	5.5	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.8	14.8	15.5	6.7	2.0		41.8	19.9	42.2	46.7	36.5	43.4
NE	2.3	4.9	2.6	1.0	.5		11.3	15.7	10.4	12.0	1.0	12.4
E	2.1	2.2	1.5	.5	.2		6.4	13.5	7.5	7.8	.1	4.9
SE	1.0	1.0	.3	.3	.0		2.5	11.7	2.3	.2	.4	1.1
S	.3	1.1	.8	.4	.0		3.0	15.6	1.7	3.5	3.9	2.9
SW	1.0	2.0	1.0	.2	.0		4.3	11.6	3.3	3.7	5.4	2.0
W	1.7	3.2	1.0	.2	.0		6.1	11.5	5.0	6.5	9.0	2.6
NW	3.0	12.4	5.3	1.5	.0		22.3	14.2	26.2	16.7	19.8	27.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	1.4	.9	4.1	3.4
TOT OBS	84	206	138	53	13	494		16.0	144	115	148	87
TOT PCT	17.0	41.7	27.9	10.7	2.6		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1933-1974

AREA 0018 TATAR STRAIT S
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.4	2.8	31.3	42.4	16.0	4.9	1.4	16.1	100.0	144
0600	.9	1.7	31.3	41.7	15.7	7.0	1.7	16.6	100.0	115
1200	4.1	3.4	28.4	39.2	20.3	4.7	.0	15.5	100.0	148
1800	3.4	1.1	31.0	35.6	23.0	5.7	.0	16.3	100.0	87
TOT	12	12	150	198	91	27	4	16.0		494
PCT	2.4	2.4	30.4	40.1	18.4	5.5	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.0	4.4	12.7	10.9		4.9
NE	2.1	1.2	2.9	3.1		5.1
E	.7	.0	2.3	2.3		4.1
SE	.8	.3	.1	.7		3.8
S	.9	.2	.5	1.0		4.5
SW	3.1	.6	.6	.9		3.0
W	2.8	.5	2.9	.6		3.9
NW	13.2	3.5	7.1	3.3		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	.3	.8	.0		2.0
TOT OBS	137	41	112	85	375	4.3
TOT PCT	36.5	10.9	29.9	22.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT+NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.0	.0	.5	.8	4.9	12.2	1.2	.3	.3	.5	17.3	
NE	.6	.0	.0	.3	.3	3.6	.3	.0	.0	.3	4.0	
E	.5	.0	.0	.0	.5	1.9	.7	.0	.0	.0	1.7	
SE	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
S	.5	.0	.0	.0	.5	.3	.0	.0	.0	.0	1.3	
SW	.3	.0	.0	.0	.3	.3	.1	.0	.0	.0	4.2	
W	.2	.0	.0	.0	1.0	.2	.9	.3	.0	.3	3.9	
NW	.0	.0	.0	.0	2.1	6.0	.7	.0	.0	.1	18.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.0	.3	.0	.3	.0	2.1	
TOT OBS	12	0	2	4	37	92	18	2	2	4	202	375
TOT PCT	3.2	.0	.5	1.1	9.9	24.5	4.8	.5	.5	1.1	53.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				OR >0
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD		
OR >6500	1.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
OR >5000	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
OR >3500	4.2	5.6	5.6	6.4	6.9	7.2	7.2	7.2	
OR >2000	11.9	17.5	23.9	27.6	29.7	31.3	31.8	31.8	
OR >1000	14.1	24.1	31.0	35.8	39.5	41.9	42.4	42.4	
OR >600	14.6	24.7	31.8	36.6	40.3	43.0	43.5	43.5	
OR >300	14.6	24.7	31.8	36.6	40.3	43.2	43.8	43.8	
OR >150	14.6	24.7	31.8	36.6	40.3	43.2	43.8	43.8	
OR >0	14.6	24.7	32.6	37.9	42.4	45.9	46.9	47.2	
TOTAL	55	93	123	143	160	173	177	178	

TOTAL NUMBER OF OBS: 377

PCT FREQ NM <5/8: 52.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	24.1	6.8	11.9	5.6	4.1	5.4	7.1	11.4	20.7	411

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1939-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	1.9	1.1	.9	.4	.2	.0	.0	.0	.0	.0	4.5		
	NO PCP	.5	.6	.0	.0	.0	.0	.0	.2	.0	.0	1.4		
	TOT %	2.4	1.7	.9	.4	.2	.0	.0	.2	.0	.0	5.8		
1/2<1	PCP	.7	1.0	.7	*	.4	.0	.1	.6	.0	.0	3.7		
	NO PCP	.1	.4	.0	.0	.0	.0	.0	*	.0	.0	.6		
	TOT %	.8	1.4	.7	*	.4	.0	.1	.7	.0	.0	4.3		
1<2	PCP	2.6	.5	.5	.2	.3	.6	.3	.8	.0	.0	6.0		
	NO PCP	.5	.2	.0	.0	.2	.0	.0	.8	.0	.0	1.0		
	TOT %	3.2	.7	.5	.2	.5	.6	.3	.9	.0	.0	7.0		
2<5	PCP	3.3	1.2	.2	.2	.1	.2	.2	1.3	.0	.0	6.8		
	NO PCP	.3	.2	.3	*	.0	.1	.3	.4	.0	.2	1.9		
	TOT %	3.7	1.4	.5	.3	.1	.3	.5	1.8	.0	.2	8.8		
5<10	PCP	1.4	.0	.2	.0	.3	.1	.0	.2	.0	.0	2.1		
	NO PCP	7.2	1.7	.9	.0	.4	.7	.8	4.1	.0	.6	16.2		
	TOT %	8.6	1.7	1.1	.0	.7	.8	.8	4.3	.0	.6	18.3		
10+	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2		
	NO PCP	21.2	5.2	1.8	1.3	1.0	3.4	5.1	14.6	.0	2.1	55.6		
	TOT %	21.3	5.2	1.8	1.3	1.0	3.4	5.1	14.6	.0	2.1	55.8		
TOT OBS														513
TOT PCT														
		40.1	12.1	5.6	2.2	3.0	5.0	6.7	22.4	.0	2.9	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4		
	11-21	.8	.4	.4	.2	.2	.0	.1	.1	.0		2.2		
	22+	1.4	.9	.4	.2	.0	.0	.0	.0	.0		2.9		
	TOT %	2.2	1.6	.9	.4	.2	.0	.1	.1	.0	.0	5.6		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.8		
	11-21	.2	.6	.5	.1	.2	.0	.2	.3	.0		1.9		
	22+	.4	.3	.3	.0	.2	.0	.0	.2	.0		1.4		
	TOT %	.6	1.5	1.0	.1	.4	.0	.2	.5	.0	.0	4.1		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.6	.2	.1	.2	.0	.3	.3	.3	.0		2.1		
	11-21	.4	.1	.4	.1	.2	.0	.2	.2	.0		1.4		
	22+	2.6	.5	.2	.0	.4	.2	.0	.4	.0		4.3		
	TOT %	3.6	.9	.7	.3	.6	.5	.5	.9	.0	.0	7.8		
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2		
	4-10	.7	.6	.6	.1	.2	.3	.4	.5	.0		3.3		
	11-21	2.7	.4	.0	.4	.0	.2	.0	1.4	.0		5.2		
	22+	2.6	.5	.2	.1	.2	.0	.0	.5	.0		3.9		
	TOT %	6.0	1.5	1.0	.5	.4	.5	.4	2.4	.0	.0	12.6		
5<10	0-3	.0	.2	.2	.0	.0	.0	.2	.3	.0	.6	1.4		
	4-10	.7	.8	.8	.0	.0	.3	.3	1.2	.0		4.1		
	11-21	3.2	.6	.2	.0	.5	.5	.0	1.8	.0		6.8		
	22+	4.8	.2	.0	.0	.0	.0	.0	1.0	.0		6.0		
	TOT %	8.8	1.8	1.2	.0	.5	.8	.5	4.3	.0	.6	18.4		
10+	0-3	.2	.4	.2	.0	.0	.3	.4	.0	.0	1.9	3.3		
	4-10	5.3	1.3	1.1	1.3	.6	1.3	2.5	6.6	.0		20.0		
	11-21	11.8	2.0	.2	.0	.2	.8	1.0	6.5	.0		22.5		
	22+	3.2	.6	.0	.0	.0	.2	.8	1.0	.0		5.8		
	TOT %	20.4	4.3	1.5	1.3	.8	2.6	4.7	14.1	.0	1.9	51.5		
TOT OBS														483
TOT PCT														
		41.5	11.5	6.3	2.6	2.8	4.3	6.2	22.2	.0	2.5	100.0		

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1933-1974

FEBRUARY

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	3.1	.0	.8	3.1	13.4	22.8	5.5	.8	.8	2.4	52.8	47.2	127
06009	2.0	.0	.0	.0	12.9	28.7	6.9	.0	1.0	1.0	52.5	47.5	101
12015	5.5	.0	.9	.0	6.4	19.3	1.8	.9	.0	.9	35.8	64.2	109
18021	1.7	.0	.0	.0	5.1	25.4	3.4	.0	.0	.0	35.6	64.4	59
TOT PCT	13 3.3	0 .0	2 .5	4 1.0	40 10.1	94 23.7	18 4.5	2 .5	2 .5	5 1.3	180 45.5	216 54.5	396 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.5	4.3	5.5	11.7	17.8	55.2	103
06009	5.2	4.4	8.1	13.3	15.6	53.3	135
12015	7.1	4.8	8.9	8.3	19.0	51.8	108
18021	5.4	5.4	7.5	14.0	17.2	50.5	93
TOT PCT	23 5.9	26 4.7	42 7.5	64 11.4	98 17.5	296 53.0	559 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.3	10.7	24.6	31.1	44.3	122
06009	2.0	10.1	28.3	26.3	45.5	99
12015	6.0	12.0	20.0	20.0	60.0	100
18021	1.8	12.5	25.0	12.5	62.5	56
TOT PCT	13 3.4	42 11.1	92 24.4	91 24.1	194 51.5	377 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.7	.0	.0	.7	2	1.4
30/34	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
25/29	.0	.0	.7	.0	1.4	1.4	5.7	2.8	17	12.1
20/24	.0	.0	.0	.7	.0	3.5	2.8	4.3	16	11.3
15/19	.0	.0	.7	2.8	2.1	6.4	14.2	7.1	47	33.3
10/14	.0	.0	.0	.0	.0	7.8	12.8	2.1	32	22.7
5/9	.0	.0	.0	.0	.0	.7	15.6	2.1	26	18.4
TOT PCT	0 .0	0 .0	2 1.4	5 3.5	6 4.3	29 20.6	72 51.1	27 19.1	141 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.7	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
6.6	1.2	.0	.7	.7	1.6	1.2	.0	.0	.0
3.4	1.8	1.8	.9	.5	.2	.0	2.1	.0	.7
10.3	6.2	4.1	.0	.5	1.6	.5	9.4	.0	.7
12.2	1.4	.0	.0	.7	.0	.0	6.9	.0	1.4
10.5	.7	.0	.0	.0	.0	.0	7.3	.0	.0
43.6	12.1	5.9	1.6	2.5	4.1	1.8	25.7	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	42	32	17	9	-4	-8	17.5	160
06009	45	39	32	18	9	3	0	19.1	130
12015	46	41	34	18	7	-2	-4	18.8	167
18021	46	43	30	16	1	-8	-8	16.7	99
TOT	46	41	33	18	9	-4	-8	18.2	556

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.9	8.6	28.6	45.7	14.3	81	35
06009	.0	10.3	7.7	12.8	51.3	17.9	81	39
12015	.0	5.4	.0	29.7	35.1	29.7	81	37
18021	.0	.0	.0	12.9	74.2	12.9	85	31
TOT	0	7	6	30	72	27	82	142

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PERIOD: (PRIMARY) 1961-1974
(OVER-ALL) 1953-1974AREA 0018 TAYAR STRAIT S
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.2	4	.0	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	2	.0	.5
2	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.2	5	.0	1.1
1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.2	.0
0	.0	.0	.0	.0	.0	.0	.5	.7	.5	.0	.0	.0	7	.0	1.6
-1	.0	.0	.0	.0	.0	.0	.2	.7	.5	.0	.0	.0	6	.2	1.1
-2	.0	.0	.0	.0	.0	.0	1.1	.7	.2	.0	.0	.2	10	.0	2.3
-3	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3	.0	.7
-4	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	16	.0	3.6
-5	.0	.0	.0	.0	.0	.9	1.6	.5	.2	.0	.2	.0	13	.2	3.2
-6	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	4	.0	.9
-7-8	.0	.0	.0	.0	.0	2.7	2.9	.9	.0	.5	.0	.0	21	.0	7.0
-9/-10	.0	.0	.0	.0	1.8	1.6	1.6	.2	.0	.0	.0	.0	23	.0	5.2
-11/-13	.0	.0	.0	1.6	5.9	4.1	.5	.2	.0	.0	.0	.0	54	.0	12.2
-14/-16	.0	.0	.2	7.0	4.1	1.6	.5	.0	.2	.2	.0	.0	61	.0	13.7
-17/-19	.0	.0	7.4	5.9	3.4	.9	.2	.0	.0	.0	.0	.0	79	.5	17.3
-20/-22	.0	1.8	4.3	3.4	.9	.5	.0	.0	.0	.0	.0	.0	48	.0	10.8
-23/-25	.5	4.1	3.2	.9	.5	.0	.0	.0	.0	.0	.0	.0	40	.5	8.6
-26/-30	1.1	.9	1.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	18	.0	4.1
<-30	2.5	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	14	.2	2.9
TOTAL	18	30	75	85	74	59	59	20	11	4	5	4	44	6	436
PCT	4.1	6.8	16.9	19.1	16.7	13.3	13.3	4.5	2.5	.9	1.1	.9	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.6
1-2	.0	3.2	3.5	.0	.0	.0	6.7	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.6	8.0	2.8	.0	.0	11.3	.0	.6	.8	.2	.0	.0	1.5
5-6	.0	.0	7.4	2.8	1.1	.0	11.2	.6	.6	.3	.2	.8	.0	2.5
7	.0	.0	.5	2.5	.0	.0	2.9	.0	.0	.2	.0	.6	.0	.8
8-9	.0	.0	1.1	.6	.0	.0	1.7	.0	.0	.6	.0	.0	.2	.8
10-11	.0	.0	.5	2.3	.0	.0	2.8	.0	.0	.6	.2	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	1.2
13-16	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.5	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	21.3	12.1	1.7	.0	39.4	.6	2.5	2.6	1.1	1.4	.8	6.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	1.5	.0	.6	.0	2.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.5	1.1	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	2.1	.0	.6	.5	5.7	.0	.0	.9	.2	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0018 TATAR STRAIT S
47.9N 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.0	.8	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.8	.0	.0	.0	.2	
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.2	.0	.0	.0	.0	.0	
5-6	.0	.0	.6	1.2	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	2.3	1.7	.0	.0	4.0	.6	.5	1.8	.0	.0	.0	2.9	

HGT	M							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.9	.0	.0	.0	.0	.9	.6	2.1	.0	.0	.0	.0	2.8	
1-2	.0	3.2	.6	.0	.0	.0	3.8	.0	4.4	2.6	.0	.0	.0	7.1	
3-4	.0	.5	.6	.0	.0	.0	1.1	.0	1.2	7.2	.2	.0	.0	8.6	
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	3.1	.2	.0	.0	3.2	
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.6	.6	.0	.0	1.2	
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	2.0	1.4	.0	.0	3.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.6	2.9	1.1	.0	.0	8.6	.6	7.8	15.6	2.3	.0	.0	26.4	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	6.1	.0	.0	.0	.0	10.4	
1-2	.0	12.3	9.2	.0	.0	.0	21.5	
3-4	.0	3.1	18.4	3.1	.0	.0	24.5	
5-6	.6	.6	14.7	4.3	2.3	.0	22.7	
7	.0	.0	1.2	3.7	.6	.0	5.5	
8-9	.0	.0	4.3	3.1	.0	.6	8.0	
10-11	.0	.0	1.2	2.5	.0	.0	3.7	
12	.0	.0	.0	.6	.0	.6	1.2	
13-16	.0	.0	.0	1.2	.0	.0	1.2	
17-19	.0	.0	.6	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.6	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TCT PCT	4.9	22.1	49.7	18.4	3.7	1.2	100.0	163

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	12.6	8.1	5.8	.4	.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	3
6-7	.0	.4	1.8	4.5	1.3	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6
8-9	.0	.4	.9	1.8	.9	.9	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	7
10-11	.0	.9	.4	.9	.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3
>13	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	17
INDEX	13.0	4.5	11.7	8.5	2.2	1.8	1.8	1.3	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	4
TOTAL	35	42	52	48	12	13	8	5	4	1	0	1	0	0	0	0	0	0	0	223	4
PCT	15.7	18.8	23.3	21.5	5.4	6.7	3.6	2.2	1.8	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974

MARCH

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	23.1	.0	.0	23.1	1.4	.0	.8	.0	.4	.4	73.9
NE	.0	.0	.0	.0	19.5	.0	.0	19.5	1.3	.0	.0	.0	.0	.0	79.2
E	.0	.0	.0	.0	22.0	.0	.0	22.0	.0	.0	.0	.0	.0	.0	78.0
SE	.0	.0	.0	.0	25.9	.0	.0	25.9	.0	.0	.0	.0	.0	.9	73.3
S	3.4	.0	3.4	.0	10.3	.0	.0	17.2	.0	.0	.9	.0	.0	1.3	80.6
SW	.0	.0	.0	.0	4.6	.0	2.3	6.9	.0	.0	1.1	.0	.0	.0	92.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	97.5
NW	.0	.0	.0	.0	10.7	.0	.0	10.7	.3	.0	3.0	.0	.0	.0	86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	3.7	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	92.6
TOT PCT	.3	.0	.3	.0	16.5	.0	.1	17.2	.7	.0	1.0	.0	.3	.3	80.4
TOT OBS:	685														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	.0	.5	.0	15.7	.0	.5	16.8	1.1	.0	2.2	.0	.0	.0	80.0
00009	.0	.0	.0	.0	13.8	.0	.0	13.8	.5	.0	1.1	.0	1.1	1.1	82.5
12115	.5	.0	.5	.0	16.3	.0	.0	17.2	.9	.0	.5	.5	.0	.0	81.0
18021	.9	.0	.0	.0	23.3	.0	.0	24.1	.0	.0	.9	.0	.0	.0	75.0
TOT PCT	.3	.0	.3	.0	16.6	.0	.1	17.3	.7	.0	1.1	.1	.3	.3	80.2
TOT OBS:	711														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15
N	1.2	11.5	13.4	9.6	2.3	.2		38.3	17.0		34.7	52.7	37.6	46.7	35.9	33.1
NE	.3	5.7	5.6	1.8	1.0	.0		14.3	14.5		14.9	9.6	18.7	8.3	17.5	9.4
E	.2	4.3	2.9	1.1	.2	.0		8.2	12.9		8.8	6.4	4.9	4.2	5.0	13.0
SE	.2	2.7	.9	.6	.2	.0		4.6	11.5		2.5	2.1	2.7	8.3	4.4	8.4
S	.9	2.9	4.0	.7	.0	.0		8.5	11.7		9.0	2.1	10.9	4.2	10.3	8.4
SW	.4	2.9	1.2	.6	.0	.0		5.0	10.4		3.6	3.2	4.6	6.7	4.4	8.4
W	.6	2.4	1.0	.0	.0	.0		4.0	8.3		2.0	9.6	2.7	3.3	5.6	6.5
NW	.6	4.5	6.1	2.0	.4	.2		13.7	15.2		17.1	14.4	12.1	18.3	9.1	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0		5.4	.0	5.8	.0	7.9	.0
TOT DBS	50	232	219	102	25	2	630		14.1		111	47	103	60	126	77
TOT PCT	7.9	36.8	34.8	16.2	4.0	.3		100.0			107.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40							00	03	06	12	18
N	7.1	13.2	11.1	5.9	.9			38.3	17.0		40.0	41.0	34.9	38.0	
NE	3.1	7.0	3.0	.9	.3			14.3	14.5		14.7	14.9	14.3	13.0	
E	1.7	3.7	2.5	.2	.0			8.2	12.9		8.1	4.6	8.0	14.2	
SE	1.5	2.2	.7	.2	.0			4.6	11.5		2.4	4.8	5.9	9.0	
S	2.6	3.2	2.7	.0	.0			8.5	11.7		7.0	8.4	9.6	9.0	
SW	1.6	2.5	.7	.2	.0			5.0	10.4		3.5	5.4	5.9	4.7	
W	1.6	2.2	.3	.0	.0			4.0	8.3		4.3	2.9	5.9	1.9	
NW	2.8	5.4	4.1	1.0	.4			13.7	15.2		16.3	14.4	10.6	14.4	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.5							3.5	.0		3.8	3.7	4.9	.0	
TOT DBS	161	248	159	52	10	630			14.1		158	163	203	106	
TOT PCT	25.6	39.4	25.2	8.3	1.6			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974

MARCH

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.8	3.2	25.3	44.9	18.4	3.8	.6	15.9	100.0	158
06009	3.7	6.1	34.4	36.8	13.5	5.5	.0	13.9	100.0	163
12015	4.9	4.9	41.9	30.5	13.8	3.9	.0	12.9	100.0	203
18021	.0	2.8	48.1	24.5	21.7	1.9	.9	13.9	100.0	106
TOT	22	28	232	219	102	25	2	14.1		630
PCT	3.5	4.4	36.8	34.6	16.2	4.0	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	9.4	2.8	14.2	6.0		4.7
NE	4.6	2.3	3.1	5.4		4.7
E	1.3	1.0	1.1	2.1		4.8
SE	.9	.2	.9	.9		4.9
S	2.7	1.1	2.4	4.1		5.2
SW	2.9	1.0	.6	1.9		3.7
W	3.8	.3	1.4	.9		2.8
NW	6.3	2.3	5.2	1.0		3.7
VAR	.0	.0	.0	.0		.0
CALM	3.0	.9	.9	.9		3.1
TOT OBS	151	52	129	100	432	4.3
TOT PCT	35.0	12.0	29.9	23.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.9	.0	.0	.6	4.1	7.9	1.3	.5	.3	.7	16.1	
.0	.5	.0	.2	1.9	3.4	.7	.0	.1	.2	8.5	
.2	.0	.0	.0	.8	1.0	.2	.0	.0	.2	3.1	
.0	.0	.0	.2	.5	.6	.1	.0	.0	.1	1.3	
.5	.0	.0	.2	.9	1.7	1.0	.0	.2	1.0	4.7	
.0	.0	.0	.2	1.0	.5	.2	.0	.0	.1	4.5	
.0	.0	.0	.0	.0	1.0	.2	.0	.0	.2	5.0	
.2	.0	.0	.3	.9	2.8	.3	.0	.0	.7	9.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.0	.5	.5	.0	.0	.0	.2	4.4	
9	2	0	8	45	84	17	2	3	15	247	432
2.1	.5	.0	1.9	10.4	19.4	3.9	.5	.7	3.5	57.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	3.8	3.8	4.0	4.0	4.0	4.0	4.0	4.0
>5000	4.0	4.0	4.4	4.4	4.4	4.4	4.4	4.4
>3500	6.6	7.7	8.4	8.6	8.8	8.8	8.8	8.8
>2000	15.0	22.7	25.6	27.2	28.0	28.9	28.9	28.9
>1000	19.4	30.5	34.0	35.5	37.3	38.9	39.1	39.1
>600	19.9	31.6	35.8	37.2	39.3	40.8	41.1	41.1
>300	19.9	31.6	35.8	37.3	39.3	40.8	41.1	41.1
>150	20.3	32.0	36.2	37.7	39.7	41.3	41.5	41.5
>0	20.5	32.7	36.9	39.3	41.3	42.8	43.5	43.7
TOTAL	93	148	167	178	187	194	197	198

TOTAL NUMBER OF OBS: 453

PCT FREQ NM <5/8: 56.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
26.2	5.7	10.6	6.4	6.0	6.2	11.9	6.8	18.5	1.7	470

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974

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AREA 0018 TATAR STRAIT S
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	2.4	.4	.0	.8	.4	.0	.0	.2	.0	.0	4.2	
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.7	.4	.0	.8	.4	.0	.0	.2	.0	.0	4.5	
1/2<1	PCP	.9	1.6	.3	.1	.4	.1	.0	.1	.0	.0	3.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	1.6	.3	.1	.4	.1	.0	.1	.0	.0	3.6	
1<2	PCP	.9	.0	.7	.0	.1	.0	.0	.5	.0	.0	2.3	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	1.1	.0	.7	.0	.1	.0	.0	.5	.0	.0	2.5	
2<5	PCP	2.8	.5	.6	.2	.4	.1	.0	.4	.0	.0	4.9	
	NO PCP	.4	.2	.1	.0	.0	.3	.3	.0	.0	.0	1.3	
	TOT %	3.2	.7	.7	.2	.4	.4	.3	.4	.0	.0	6.3	
5<10	PCP	1.3	.1	.0	.0	.4	.1	.0	.1	.0	.1	2.3	
	NO PCP	6.3	3.7	1.0	1.3	2.1	1.3	.8	2.6	.0	.6	19.6	
	TOT %	7.6	3.8	1.0	1.3	2.5	1.5	.8	2.7	.0	.7	21.9	
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	NO PCP	20.2	7.1	4.6	1.8	4.9	4.3	4.7	10.2	.0	3.2	60.9	
	TOT %	20.2	7.2	4.6	1.8	4.9	4.3	4.7	10.4	.0	3.2	61.2	
TOT OBS													
TOT PCT													
		35.8	13.7	7.3	4.3	8.7	6.4	5.7	14.3	.0	3.9	100.0	688

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	11-21	.6	.0	.0	.2	.4	.0	.0	.1	.0	.0	1.3	
	22+	3.2	.3	.0	.5	.0	.0	.0	.2	.0	.0	4.1	
	TOT %	4.1	.5	.0	.7	.4	.0	.0	.2	.0	.0	5.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.5	
	11-21	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.8	
	22+	.6	1.4	.2	.1	.2	.0	.0	.2	.0	.0	2.5	
	TOT %	1.1	1.8	.3	.2	.2	.0	.0	.2	.0	.0	3.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	11-21	.1	.0	.6	.0	.5	.2	.0	.2	.0	.0	1.6	
	22+	.8	.1	.5	.0	.0	.0	.0	.4	.0	.0	1.8	
	TOT %	1.2	.1	1.3	.0	.5	.2	.0	.7	.0	.0	3.8	
2<5	0-3	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.5	
	4-10	1.0	.5	.5	.3	.2	.2	.3	.2	.0	.0	3.0	
	11-21	1.0	.7	.3	.8	.1	.3	.0	.2	.0	.0	2.7	
	22+	2.0	.2	.2	.0	.2	.0	.0	.1	.0	.0	2.5	
	TOT %	4.1	1.4	.9	.5	.4	.5	.3	.6	.0	.0	8.8	
5<10	0-3	.0	.0	.0	.8	.3	.2	.0	.0	.0	.6	1.1	
	4-10	1.6	1.2	.5	.7	1.0	.9	.7	.6	.0	.0	7.2	
	11-21	3.1	1.7	.4	.4	1.2	.4	.0	1.6	.0	.0	8.9	
	22+	3.3	.6	.1	.2	.2	.0	.0	.6	.0	.0	5.1	
	TOT %	8.1	3.5	1.1	1.3	2.6	1.6	.7	2.8	.0	.6	22.3	
10+	0-3	1.0	.3	.2	.8	.6	.3	.6	.4	.0	2.9	6.4	
	4-10	8.2	3.7	3.1	1.7	1.7	1.8	1.4	3.7	.0	.0	25.3	
	11-21	8.3	2.9	.9	.2	1.8	.4	1.0	3.9	.0	.0	19.4	
	22+	2.3	.2	.3	.0	.1	.2	.0	1.2	.0	.0	4.3	
	TOT %	19.9	7.1	4.5	1.9	4.3	2.7	3.1	9.2	.0	2.9	55.4	
TOT OBS													
TOT PCT													
		38.4	14.4	8.0	4.6	8.4	4.9	4.1	13.7	.0	3.5	100.0	628

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PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974AREA 0018 TATAR STRAIT S
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.4	.0	.0	2.8	14.8	24.6	5.6	1.4	.0	.7	51.4	48.6	142
06009	3.0	.0	.0	2.3	8.3	23.5	2.3	.0	.8	7.6	47.7	52.3	132
12015	2.3	1.5	.0	1.5	9.2	14.5	5.3	.0	1.5	2.3	38.2	61.8	131
18021	1.9	.0	.0	.0	5.8	11.5	3.8	.0	.0	1.9	25.0	75.0	52
TOT	10	2	0	9	47	91	20	2	3	15	199	258	437
PCT	2.2	.4	.0	2.0	10.3	19.9	4.4	.4	.7	3.3	42.5	56.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	4.1	3.1	3.1	8.2	25.8	55.7	194
06009	6.2	2.1	2.6	5.6	20.5	63.1	195
12015	6.4	3.4	5.1	8.5	20.3	56.4	236
18021	4.9	6.5	4.1	10.6	17.9	56.1	123
TOT	41	26	28	60	160	433	748
PCT	5.5	3.5	3.7	8.0	21.4	57.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.4	6.3	17.6	34.5	47.9	142
06009	3.1	3.8	11.5	36.6	51.9	131
12015	2.3	10.1	14.0	27.1	58.9	129
18021	2.0	7.8	17.6	11.8	70.6	51
TOT	10	31	67	138	248	433
PCT	2.2	6.8	14.8	30.5	54.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.7	.0	1.5	1.5	5	3.7
30/34	.0	.0	.0	2.2	4.4	5.9	3.7	2.9	26	19.1
25/29	.0	.7	.7	2.9	2.9	4.4	8.8	8.1	39	28.7
20/24	.0	.0	.0	.0	.7	2.2	1.5	10.3	20	14.7
15/19	.0	.0	.0	3.7	2.2	2.2	4.4	1.5	19	14.0
10/14	.0	.0	.0	.0	1.5	8.8	4.4	2.2	23	16.9
5/9	.0	.0	.0	.0	.0	.7	2.2	.0	4	2.9
TOTAL	0	1	1	12	17	33	36	36	136	100.0
PCT	.0	.7	.7	8.8	12.5	24.3	26.5	26.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.7	.0	.0	.9	.6	.7	.0	.7
2.8	.7	1.8	.6	5.7	2.4	2.8	.9	.0	1.5
8.3	5.3	2.9	.7	1.5	5.1	2.8	2.0	.0	.0
5.0	4.0	1.3	.0	.7	1.5	.0	.7	.0	1.5
4.4	3.7	.0	.0	.0	.0	.0	4.4	.0	1.5
9.2	.4	.7	.0	.0	.0	.7	5.9	.0	.0
1.5	.0	.0	.0	.0	.0	.0	1.5	.0	.0
31.1	14.2	7.5	1.3	7.9	9.9	6.8	16.2	.0	5.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	39	36	27	12	8	7	25.8	188
06009	43	41	37	28	15	12	10	27.6	189
12015	46	43	36	28	14	9	8	26.8	233
18021	43	42	34	26	10	7	5	24.7	122
TOT	46	41	36	27	13	9	5	26.4	732

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	14.3	11.4	22.9	28.6	22.9	78	35
06009	.0	9.8	9.8	31.7	22.0	26.8	79	41
12015	.0	8.6	17.1	17.1	22.9	34.3	79	35
18021	.0	7.4	11.1	22.2	37.0	22.2	81	27
TOT	0	14	17	33	37	37	79	138

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PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974AREA 0018 TATAR STRAIT S
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	5	.0	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.2	.3	.3	.0	5	.0	.9
4	.0	.0	.0	.0	.0	.0	.2	1.0	.3	.0	.0	9	.2	1.4
3	.0	.0	.0	.0	.0	.0	.5	.4	.2	.2	.0	7	.0	1.2
2	.0	.0	.0	.0	.0	.0	1.6	1.2	.2	.2	.2	19	.0	3.3
1	.0	.0	.0	.0	.0	.0	1.7	1.4	.3	.0	.0	20	.0	3.5
0	.0	.0	.0	.0	.0	.7	3.5	2.6	.3	.2	.0	42	.0	7.3
-1	.0	.0	.0	.0	.0	1.2	.9	.3	.0	.0	.0	14	.0	2.4
-2	.0	.0	.0	.0	.0	2.8	4.5	.9	.2	.0	.0	48	.0	8.4
-3	.0	.0	.0	.0	.0	1.0	1.4	1.0	.0	.0	.0	20	.0	3.5
-4	.0	.0	.0	.0	.0	5.6	3.5	.5	.0	.2	.0	56	.0	9.8
-5	.0	.0	.0	.0	.9	5.1	2.4	.2	.0	.0	.0	49	.0	8.6
-6	.0	.0	.0	.0	.3	1.9	1.2	.0	.0	.0	.0	20	.0	3.5
-7/-8	.0	.0	.0	.0	5.1	4.9	1.6	.0	.0	.0	.0	66	.0	11.5
-9/-10	.0	.0	.0	1.6	2.8	3.0	.7	.2	.0	.0	.0	47	.2	8.0
-11/-13	.0	.0	.3	2.8	3.1	.9	1.0	.2	.0	.0	.0	48	.2	8.2
-14/-16	.0	.2	3.7	1.0	1.2	.9	.5	.0	.0	.0	.0	43	.5	7.5
-17/-19	.0	2.4	2.8	.3	.2	.0	.2	.0	.0	.0	.0	34	.0	5.9
-20/-22	.2	.9	1.0	.0	.2	.0	.0	.0	.0	.0	.0	13	.0	2.3
-23/-25	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	1.0
TOTAL	4	22	46	33	79	160	58	15	9	1	573	6	100.0	99.0
PCT	.7	3.8	8.0	5.8	13.8	27.9	25.5	10.1	2.6	1.6	.2	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.9	6.5	.3	.0	.0	.0	8.7	.0	3.2	.0	.0	.0	.0	.0	.0	3.2
1-2	.0	2.2	3.6	.0	.0	.0	8.8	.0	2.4	2.3	.0	.0	.0	.0	.0	4.7
3-4	.0	1.0	5.1	.3	.0	.0	6.5	.0	1.0	2.5	.0	.0	.0	.0	.0	3.5
5-6	.0	.0	4.5	1.0	.0	.0	5.5	.0	.3	1.4	.3	.0	.0	.0	.0	2.3
7	.0	.3	.0	2.5	.0	.0	2.8	.0	.0	.3	.4	.0	.0	.0	.0	.8
8-9	.0	.0	1.1	.3	.0	.0	1.4	.0	.0	.4	.1	.0	.0	.0	.0	.5
10-11	.0	.0	.0	.3	.3	.0	.7	.0	.0	.1	.3	.0	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.3	.3	.0	.7	.0	.0	.0	.3	1.0	.0	.0	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	13.0	14.7	4.8	.7	.0	35.1	.0	7.0	7.3	1.6	2.1	.0	.0	.0	17.9

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	1.3	.0	.0	.0	.0	.0	.0	1.3
1-2	.0	.7	1.1	.0	.0	.0	1.8	.0	.6	1.5	.0	.0	.0	.0	.0	2.1
3-4	.0	.6	1.4	.0	.0	.0	2.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
5-6	.0	.0	.3	.3	.0	.0	.6	.0	.0	.1	.0	.0	.0	.0	.0	.1
7	.0	.3	.0	.3	.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.0	.8	.3	.0	7.2	.1	2.0	1.6	.0	.0	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.6	.3	.0	.0	.0	1.9	.4	1.2	.0	.0	.0	.0	1.6
1-2	.0	2.4	1.6	.0	.0	.0	4.1	.0	1.3	.4	.0	.0	.0	1.7
3-4	.3	.0	1.6	.9	.0	.0	2.8	.0	.3	.4	.1	.0	.0	1.8
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.1	.3	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.0	5.6	.9	.0	.0	10.8	.4	2.9	1.2	.1	.0	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.1	.3	.0	.0	.0	1.5	.2	2.1	.0	.0	.0	.0	2.2	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.7	2.8	.0	.0	.0	3.5	
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.3	2.2	.0	.0	.0	2.5	
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.0	1.2	.3	.0	.0	1.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.9	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.6	1.3	.0	.0	.0	3.9	.2	3.1	6.7	1.3	.0	.0	11.3	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.0	17.6	1.0	.0	.0	.0	27.6	
1-2	.0	14.5	13.4	.0	.0	.0	27.9	
3-4	.3	3.4	14.1	1.4	.0	.0	19.3	
5-6	.0	.7	9.0	2.1	.0	.0	11.7	
7	.0	.7	1.0	4.1	.3	.0	6.2	
8-9	.0	.0	1.7	.3	.0	.0	2.1	
10-11	.0	.0	.3	.7	.3	.0	1.4	
12	.0	.0	.0	.0	.3	.0	.3	
13-16	.0	.0	.3	.7	1.4	.0	2.4	
17-19	.0	.0	.3	.0	.7	.0	1.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TCT PCT	9.3	36.9	41.4	9.3	3.1	.0	100.0	290

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	16.9	10.7	3.0	1.8	.6	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125
6-7	.6	2.7	3.8	3.0	3.6	1.2	2.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58
8-9	.0	.3	.6	.9	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
10-11	.0	.6	.6	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
>13	.0	.0	.0	1.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
INDET	17.2	5.3	7.1	3.0	2.7	.6	.6	.3	1.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	132
PCT	65	87	79	45	28	8	10	1	9	5	1	0	0	0	0	0	0	0	0	0	338
TOT PCT	19.2	25.7	23.4	13.3	8.3	2.4	3.0	.3	2.7	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

APRIL

AREA 0018 YATAR STRAIT S
48.0N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	1.3	.0	16.9	.0	.0	18.2	1.3	.0	5.1	.0	.0	.0	75.5
NE	3.3	1.7	3.3	.0	15.0	.0	.0	23.3	3.3	.0	5.4	.0	.0	.0	67.9
E	.0	.0	.0	.0	11.9	.0	.0	11.9	1.6	.0	8.1	.0	.0	.0	78.4
SE	6.4	.0	.0	.0	6.0	.0	.0	12.5	2.1	.0	8.9	.0	.0	.0	76.7
S	5.9	.0	3.2	.0	1.8	.0	.0	10.8	1.4	.0	7.7	.8	.0	.0	79.3
SW	1.9	.0	.9	.0	1.4	.0	.9	5.2	.9	.0	6.6	1.9	.0	.0	85.3
W	.0	.0	.0	.0	8.1	.0	.0	8.1	.0	.0	1.3	.0	1.3	.0	87.9
NW	1.7	.0	.0	.0	3.8	.0	.0	5.5	1.7	.0	5.5	.0	.4	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	6.3	.0	.0	.0	81.3
TOT PCT	2.8	.2	1.6	.0	6.9	.0	.2	11.0	1.5	.0	6.4	.5	.2	.0	79.9
TOT OBS:	612														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.6	.0	.6	.0	6.0	.0	.0	7.2	1.8	.0	5.4	.6	.6	.0	84.3
06009	3.0	.0	1.8	.0	4.2	.0	.0	9.0	.8	.0	6.6	.6	.0	.0	83.1
12015	3.7	.5	1.6	.0	7.0	.0	.0	12.8	2.7	.0	5.9	.5	.0	.0	78.1
18021	4.8	.0	2.9	.0	11.4	.0	1.0	20.0	1.0	.0	7.6	.0	.0	.0	71.4
TOT PCT	2.9	.2	1.0	.0	6.7	.0	.2	11.5	1.6	.0	6.3	.5	.2	.0	80.0
TOT OBS:	624														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	3.9	5.6	3.1	.2	.0		13.3	15.1	14.5	11.3	10.7	9.1	12.4	15.0	22.9	13.7	
NE	.7	3.1	3.2	2.1	.2	.3		9.7	15.6	9.7	14.2	10.4	3.8	10.1	9.3	11.2	9.7	
E	.9	3.1	2.1	1.5	.0	.0		7.6	13.1	4.7	3.8	4.4	11.4	11.6	9.3	6.4	8.9	
SE	1.2	5.8	3.7	1.2	.0	.0		11.9	11.0	8.9	4.7	11.0	12.1	13.6	15.7	13.4	13.7	
S	.6	8.6	6.0	4.2	.0	.0		19.4	13.8	14.7	24.5	22.0	22.7	20.8	15.0	18.1	18.5	
SW	.9	6.5	7.0	2.7	.2	.0		17.2	13.6	17.4	20.8	24.2	21.2	10.9	18.6	11.7	12.1	
W	.3	3.2	2.9	1.5	.0	.0		8.0	13.3	12.9	5.7	6.6	10.6	4.5	8.6	8.0	7.3	
NW	.7	4.5	2.7	1.7	.3	.0		10.0	13.1	11.8	11.3	8.5	9.1	12.1	7.1	4.3	12.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9							2.9	.0	5.3	3.8	2.2	.0	4.0	1.4	2.1	3.2	
TOT OBS	51	227	194	106	5	2	585		13.2	95	53	91	66	101	70	47	62	
TOT PCT	8.7	38.8	33.2	18.1	.9	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.8	4.7	5.0	.6	.2		13.3	15.1	13.3	10.0	13.5	17.7		
NE	2.4	3.1	3.0	.9	.3		9.7	15.6	11.3	7.6	9.8	10.3		
E	2.2	2.8	1.9	.7	.0		7.6	12.1	4.4	7.3	10.7	7.8		
SE	4.0	5.4	2.1	.4	.0		11.9	11.0	7.4	11.5	14.5	14.4		
S	4.1	9.0	4.7	1.6	.0		19.4	13.8	18.2	22.3	18.4	18.3		
SW	3.3	7.4	6.0	.4	.0		17.2	13.6	18.6	22.9	14.0	11.9		
W	2.3	2.9	2.6	.2	.0		8.0	13.3	10.3	8.3	6.1	7.6		
NW	2.7	4.2	2.3	.5	.2		10.0	13.1	11.7	8.8	10.1	9.2		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.9						2.9	.0	4.7	1.3	2.9	2.8		
TOT OBS	156	232	162	31	4	585		13.2	148	157	171	109		
TOT PCT	26.7	39.7	27.7	5.3	.7		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

APRIL

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.7	5.4	32.4	37.8	17.6	1.4	.7	13.9	100.0	148
0600	1.3	8.3	40.1	25.5	24.2	.6	.0	13.3	100.0	157
1215	2.9	3.5	39.2	38.0	14.6	1.2	.6	13.4	100.0	171
1821	2.8	6.4	45.0	30.3	15.6	.0	.0	11.9	100.0	109
TOT	17	34	227	194	106	5	2	13.2		585
PCT	2.9	5.8	38.8	33.2	18.1	.9	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	3.3	.3	4.0	4.2		5.2
NE	3.1	.3	1.5	4.7		5.3
E	1.4	.5	2.4	2.5		5.6
SE	1.5	.8	2.2	6.2		6.3
S	5.7	1.5	4.2	10.3		5.3
SW	5.6	1.9	4.1	5.2		4.4
W	2.7	.6	2.3	2.3		4.6
NW	5.0	.9	2.6	2.4		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.2	.3	.6	1.2		4.5
TOT OBS	96	23	78	127	324	5.0
TOT PCT	29.6	7.1	24.1	39.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.9	.0	.0	.0	.9	3.2	.8	.0	.6	.3	5.0	
NE	.7	.0	.0	1.2	.6	2.2	.6	.0	.0	.3	4.0	
E	.2	.0	.3	.0	1.2	1.4	1.0	.0	.0	.2	2.5	
SE	1.5	.0	.3	.3	2.2	2.0	.5	.1	.0	.7	3.1	
S	2.3	.0	.3	.5	1.8	6.2	1.2	.5	.6	.0	8.3	
SW	.5	.0	.0	.7	.7	4.1	1.1	.3	.1	.0	9.4	
W	.3	.0	.0	.0	.3	1.9	1.1	.0	.2	.3	3.9	
NW	.6	.0	.0	.3	.6	1.3	.8	.0	.3	.3	6.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.3	.0	.0	.0	.3	.3	.0	.0	.3	1.5	
TOT OBS	25	1	3	10	27	73	24	3	6	8	144	324
TOT PCT	7.7	.3	.9	3.1	8.3	22.5	7.4	.9	1.9	2.5	44.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.1	4.0	4.0	4.0	4.3	4.3	4.3	4.3
= OR >5000	3.7	4.7	5.0	5.0	5.3	5.3	5.3	5.3
= OR >3500	7.5	12.4	13.0	13.0	13.4	13.4	13.4	13.4
= OR >2000	18.9	31.1	33.2	33.5	34.5	35.7	36.0	36.0
= OR >1000	21.7	36.0	39.8	40.4	42.2	44.1	44.4	44.4
= OR >600	22.7	38.2	42.2	43.2	45.3	47.2	47.5	47.5
= OR >300	22.7	38.5	42.9	43.8	46.0	47.8	48.1	48.1
= OR >150	23.0	38.8	43.2	44.1	46.3	48.1	48.4	48.4
= OR >0	23.9	41.3	46.0	46.4	51.2	54.7	55.6	55.9
TOTAL	77	133	148	156	165	176	179	180

TOTAL NUMBER OF OBS: 322

PCT FREQ NH <5/8: 44.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	23.7	3.8	6.3	3.8	4.9	7.6	4.9	7.1	31.1	6.8	367

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.0	.6	.1	.4	.2	.2	.5	*	.0	.0	3.1	
	NO PCP	.2	.5	.3	.2	.9	1.0	.0	.3	.0	.0	3.4	
	TOT %	1.2	1.1	.4	.6	1.2	1.2	.5	.4	.0	.0	6.5	
1/2<1	PCP	.5	.2	.3	.0	.3	.0	.2	.0	.0	.2	1.6	
	NO PCP	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.5	.5	.4	.2	.3	.0	.2	.0	.0	.2	2.3	
1<2	PCP	.5	.7	.1	.5	.0	.0	.0	.2	.0	.0	2.0	
	NO PCP	.0	.0	.0	.2	.3	*	.0	.0	.0	.0	.5	
	TOT %	.5	.7	.1	.7	.3	*	.0	.2	.0	.0	2.4	
2<5	PCP	.2	.3	.5	.4	1.1	.6	.0	.2	.0	.0	3.3	
	NO PCP	.8	.0	.3	.5	1.1	.7	.2	.2	.0	.0	3.9	
	TOT %	1.0	.3	.8	1.0	2.2	1.2	.2	.4	.0	.0	7.2	
5<10	PCP	.3	.3	.0	.1	.6	.2	.0	.0	.0	.2	1.6	
	NO PCP	2.5	1.4	1.0	2.0	5.4	3.6	1.9	1.1	.0	.2	19.1	
	TOT %	2.9	1.7	1.0	2.0	6.0	3.8	1.9	1.1	.0	.3	20.7	
10+	PCP	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.5	
	NO PCP	7.0	5.3	4.9	7.0	10.6	11.0	5.3	7.4	.0	2.1	60.4	
	TOT %	7.0	5.6	4.9	7.0	10.6	11.0	5.3	7.4	.0	2.1	60.8	
TOT OBS													613
TOT PCT		13.0	10.0	7.7	11.5	20.5	17.3	8.1	9.5	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.2	.0	.0	.2	.0	.0	.0	.0	.7	
	4-10	.4	.1	.0	.3	.3	.7	.3	.0	.0	.0	2.3	
	11-21	.3	.2	.0	.3	.6	.4	.0	.2	.0	.0	1.9	
	22+	.4	.5	.1	.2	.0	.0	.0	.3	.0	.0	1.6	
	TOT %	1.2	.9	.3	.8	.9	1.3	.5	.6	.0	.0	6.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.2	.2	.1	*	.2	.0	.2	.0	.0	.0	.9	
	22+	.3	.3	.0	.0	.2	.0	.0	.2	.0	.0	1.0	
	TOT %	.5	.5	.1	.2	.3	.0	.2	.2	.0	.2	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.5	.2	.0	.0	.0	.0	.0	.9	
	11-21	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	22+	.2	.6	.1	.2	.2	.0	.0	.2	.0	.0	1.4	
	TOT %	.5	.7	.1	.7	.5	.0	.0	.2	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.2	.1	*	.0	.0	.3	
	4-10	.5	.5	.5	.6	1.3	.3	.1	.9	.0	.0	4.9	
	11-21	.3	.1	.3	.8	1.3	.9	.0	.3	.0	.0	4.0	
	22+	.7	.0	.2	.0	1.0	.7	.0	.2	.0	.0	2.8	
	TOT %	1.5	.6	1.0	1.3	3.7	2.1	.3	1.5	.0	.0	12.0	
5<10	0-3	.2	.0	.2	.1	.4	.0	.0	.0	.0	.3	1.2	
	4-10	.3	.3	.5	.9	1.4	.8	.3	.7	.0	.0	5.2	
	11-21	1.3	.7	.3	.3	2.0	1.9	.8	*	.0	.0	7.5	
	22+	.7	.6	.2	.7	1.6	1.0	.7	.3	.0	.0	5.7	
	TOT %	2.6	1.6	1.1	2.2	5.3	3.6	1.7	1.1	.0	.3	19.6	
10+	0-3	.4	.6	.5	1.1	.2	.5	.0	.7	.0	2.3	6.3	
	4-10	2.5	2.0	2.2	3.4	5.5	4.8	2.5	3.0	.0	.0	25.9	
	11-21	3.3	1.9	1.4	2.0	1.6	3.9	1.9	2.1	.0	.0	18.1	
	22+	1.0	.7	.6	.2	1.3	1.2	.9	.9	.0	.0	6.8	
	TOT %	7.1	5.2	4.7	6.7	8.6	10.4	5.3	6.6	.0	2.3	56.9	
TOT OBS													576
TOT PCT		13.4	9.6	7.4	11.9	19.4	17.4	8.0	10.1	.0	2.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	5.1	.0	.9	2.6	9.4	23.9	9.4	.0	3.4	2.6	57.3	42.7	117
06009	6.5	.0	1.1	4.3	7.6	26.1	7.6	3.3	2.2	3.3	62.0	38.0	92
12015	8.1	1.0	1.0	3.0	8.1	18.2	6.1	.0	.0	2.0	47.5	52.5	99
18021	18.8	.0	.0	.0	3.1	12.5	6.3	.0	.0	.0	40.6	59.4	32
TOT	26	1	3	10	27	74	26	3	6	8	184	156	340
PCT	7.6	.3	.9	2.9	7.9	21.8	7.6	.9	1.8	2.4	56.1	45.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	4.6	2.3	1.7	9.7	16.0	65.7	175
06009	4.1	1.2	2.9	10.5	20.9	60.5	172
12015	8.5	3.0	2.5	11.9	23.4	50.7	201
18021	9.6	2.6	4.3	13.9	19.1	50.4	115
TOT	43	15	18	75	133	379	663
PCT	6.5	2.3	2.7	11.3	20.1	57.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<5070	<1	<5	AND 5+		OBS
00003	4.6	11.0	19.3	42.2	38.5	109
06009	5.6	8.9	17.8	43.3	38.9	90
12015	8.6	14.0	21.5	29.0	49.5	93
18021	23.3	30.0	33.3	13.3	53.3	30
TOT	25	42	67	116	139	322
PCT	7.8	13.0	20.8	36.0	43.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
45/49	.0	.0	.0	.0	3.0	.0	.0	6.1	3	9.1
40/44	.0	.0	.0	3.0	.0	.0	3.0	.0	2	6.1
35/39	.0	.0	.0	6.1	9.1	9.1	9.1	12.1	15	45.5
30/34	.0	.0	.0	9.1	.0	3.0	6.1	12.1	10	30.3
25/29	.0	.0	.0	.0	6.1	3.0	.0	.0	3	9.1
TOTAL	0	0	0	6	6	5	6	10	33	100.0
PCT	.0	.0	.0	18.2	18.2	15.2	18.2	30.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
9.1	9.8	10.6	12.1	26.5	10.6	8.3	9.8	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	52	51	46	37	28	16	13	36.4	170
06009	51	50	48	38	28	23	19	38.4	159
12015	58	50	43	36	27	21	10	35.6	184
18021	48	48	44	35	25	17	17	34.1	111
TOT	58	50	46	37	27	19	13	36.2	624

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	21.4	7.1	21.4	21.4	28.6	79	14
06009	.0	12.5	37.5	12.5	25.0	12.5	73	8
12015	.0	14.3	14.3	14.3	14.3	42.9	80	7
18021	.0	25.0	25.0	.0	.0	50.0	79	4
TOT	0	6	6	5	6	10	78	33

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.9	.2	5	.0	1.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	4	.0	.9
9/10	.0	.0	.0	.0	.0	.0	.4	.4	2.2	.4	16	.4	3.1
7/8	.0	.0	.0	.0	.0	.0	1.1	2.5	1.8	.4	26	.2	5.6
6	.0	.0	.0	.0	.0	.4	.9	1.3	.0	.2	13	.0	2.9
5	.0	.0	.0	.0	.0	.4	4.3	3.6	.4	.0	39	.7	8.1
4	.0	.0	.0	.0	.4	.7	4.9	1.8	.2	.0	36	.7	7.4
3	.0	.0	.0	.0	.2	.9	2.2	.9	.0	.0	19	.9	3.4
2	.0	.0	.0	.0	.0	3.4	6.7	1.8	.2	.0	54	.7	11.4
1	.0	.0	.0	.0	.4	1.3	1.8	1.5	.0	.0	23	.0	5.1
0	.0	.0	.0	.0	1.1	5.8	3.8	.4	.2	.0	51	.2	11.2
-1	.0	.0	.0	.0	.7	.7	1.5	.0	.0	.0	13	.0	2.9
-2	.0	.0	.0	.4	2.5	3.1	1.6	.7	.0	.0	37	.9	7.4
-3	.0	.0	.0	.0	1.1	.7	.2	.0	.2	.0	10	.4	1.8
-4	.0	.0	.0	1.6	2.7	.6	.2	.0	.0	.0	23	.0	5.1
-5	.0	.0	.0	2.0	2.4	1.6	.2	.0	.0	.0	28	.0	6.3
-6	.0	.0	.0	.7	1.1	.2	.4	.0	.0	.0	11	.2	2.2
-7/-8	.0	.0	.0	1.1	1.6	.2	.2	.2	.0	.0	15	.0	3.4
-9/-10	.0	.0	.2	.7	.4	.2	.0	.0	.0	.0	7	.2	1.3
-11/-13	.0	.0	.2	.7	1.1	.0	.2	.0	.0	.0	10	.4	1.8
-14/-16	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	3	.0	.7
-17/-19	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	2	.0	.4
-23/-25	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	1	1	2	32	93	140	68	8	447		27	420	
PCT	.2	.2	.4	7.2	16.1	20.8	31.3	15.2	6.7	1.8	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	.4	.0	.0	.0	2.2	.1	.8	.8	.0	.0	.0	1.7
1-2	.0	1.6	.8	.0	.0	.0	2.3	.0	1.7	.8	.0	.0	.0	2.4
3-4	.0	.0	2.1	.8	.0	.0	2.9	.0	.0	1.6	1.2	.0	.0	2.7
5-6	.0	.0	1.3	.8	.0	.0	2.1	.0	.4	.4	.5	.0	.0	1.3
7	.0	.0	.8	.3	.0	.0	1.1	.0	.4	1.2	.0	.0	.0	1.6
8-9	.0	.4	.4	.4	.0	.0	1.2	.0	.0	.4	.0	.4	.0	.8
10-11	.0	.0	.8	.4	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.3	.4	.0	1.1	.0	.0	.0	.1	.0	.4	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.1	6.9	3.3	.4	.0	14.5	.1	3.2	5.1	2.1	.4	.4	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.8	.4	2.4	.0	.0	.0	.0	2.8
1-2	.0	.9	.8	.0	.0	.0	1.7	.0	2.5	.6	.0	.0	.0	3.1
3-4	.0	.0	1.4	.8	.0	.0	2.1	.0	.5	.7	.4	.0	.0	1.6
5-6	.0	.0	.8	.7	.0	.0	1.5	.0	.0	.4	.4	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	2.9	1.8	.0	.0	7.3	.4	5.9	2.5	2.0	.0	.0	10.7

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.9	.0	.0	.0	.0	3.9	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	3.4	1.3	.0	.0	.0	4.7	.0	1.8	2.9	.0	.0	.0	4.7
3-4	.0	.3	2.5	1.2	.0	.0	4.0	.0	1.2	2.1	.8	.0	.0	4.1
5-6	.0	.4	1.5	1.2	.0	.0	3.0	.0	.0	2.1	.4	.0	.0	2.4
7	.0	.0	.7	.3	.0	.0	1.0	.0	.0	1.3	.9	.0	.0	2.1
8-9	.0	.0	.7	1.4	.0	.0	2.1	.0	.0	.1	.7	.4	.0	1.2
10-11	.0	.0	.0	.8	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.0	6.6	4.8	.0	.0	19.4	.0	4.6	8.9	2.8	.4	.0	16.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	2.3	.0	.0	.0	.0	2.3	
1-2	.0	1.4	1.1	.0	.0	.0	2.4	.0	.9	.8	.0	.0	.0	1.7	
3-4	.0	.3	1.5	.0	.0	.0	1.8	.0	.5	1.4	1.2	.0	.0	3.0	
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3	
7	.3	.0	.0	.0	.0	.0	.3	.1	.0	.0	1.3	.0	.0	1.4	
8-9	.0	.0	.3	.7	.0	.0	1.0	.0	.0	.4	.4	.0	.0	1.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.1	3.2	1.0	.0	.0	6.5	.1	3.7	2.8	2.9	.4	.0	10.0	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	14.1	1.2	.0	.0	.0	20.3	
1-2	.0	14.1	9.0	.0	.0	.0	23.0	
3-4	.0	2.7	13.3	6.3	.0	.0	22.3	
5-6	.0	.8	7.0	3.9	.0	.0	11.7	
7	.4	.4	4.7	2.7	.0	.0	8.2	
8-9	.0	.4	2.3	4.3	1.2	.0	8.2	
10-11	.0	.4	1.2	1.2	.0	.0	2.7	
12	.0	.0	.4	1.2	.4	.4	2.3	
13-16	.0	.0	.0	.8	.0	.0	.8	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	32.8	39.1	20.7	1.6	.4	100.0	256

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	11.5	8.4	6.5	2.2	1.2	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
6-7	.0	2.5	5.9	3.4	5.6	3.1	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	5
8-9	.3	.6	1.6	.6	1.2	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
10-11	.0	2.2	.3	.9	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
12-13	.0	.0	.6	.6	.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.9	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	6.8	4.3	7.1	4.0	3.7	1.9	.9	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	4
TOTAL	23	68	77	55	42	30	14	10	2	1	0	0	0	0	0	0	0	0	0	322	5
PCT	7.1	21.1	23.9	17.1	13.0	9.3	4.3	3.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974

MAY

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	8.8	.0	3.7	.0	.9	.0	.7	14.1	4.0	.0	9.1	.0	.7	.0	72.1
NE	13.6	4.2	3.8	.0	1.7	.0	.0	23.4	.3	.0	10.8	.0	1.4	.0	64.0
E	11.8	.0	1.4	.0	1.4	.0	.0	14.6	3.8	.0	8.4	.0	.0	.0	73.2
SE	9.1	.0	1.3	.0	.0	.0	.0	10.4	2.4	.0	23.1	.0	2.4	.0	61.2
S	5.7	.0	2.0	.0	.0	.0	.0	7.7	1.4	.0	32.6	.0	1.1	.0	57.2
SW	6.2	.0	2.0	.0	.0	.0	.0	8.1	1.5	.0	26.2	.2	.2	.0	63.7
W	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	19.2	4.2	.0	.0	74.3
NW	4.0	.0	4.5	.0	1.1	.0	.0	9.6	2.8	.0	11.9	.0	.0	.0	75.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	.0	2.9	.0	.0	.0	.0	5.7	.0	.0	17.1	2.9	.0	.0	74.3
TOT PCT	7.3	.4	2.4	.0	.5	.0	.1	10.7	2.2	.0	20.6	.4	.8	.0	65.4
TOT OBS:	835														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.5	.0	3.3	.0	.8	.0	.0	8.6	2.0	.0	20.9	.4	.4	.0	67.6
06009	7.0	.4	1.2	.0	.0	.0	.0	8.7	3.7	.0	21.1	.4	1.2	.0	64.9
12015	8.2	.8	3.3	.0	.4	.0	.4	13.1	1.2	.0	20.5	.4	.4	.0	64.3
18021	11.0	.0	2.1	.0	.7	.0	.0	13.8	.7	.0	18.6	.0	1.4	.0	65.5
TOT PCT TOT OBS:	7.3 875	.3	2.5	.0	.5	.0	.1	10.7	2.1	.0	20.5	.3	.3	.0	65.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.4	6.8	6.0	2.2	.3	.0		16.7	12.9	17.0	18.8	22.3	15.3	19.5	11.1	10.8	14.6
NE	1.2	3.8	3.1	.6	.2	.0		8.9	11.7	8.0	8.3	8.5	5.9	6.6	12.6	14.6	10.1
E	.7	4.5	2.2	.9	.2	.1		8.7	12.0	6.9	7.6	6.4	7.9	8.5	13.6	5.0	14.0
SE	1.8	4.9	2.2	.2	*	.0		9.2	8.7	6.9	9.0	8.7	8.9	5.9	14.6	11.7	10.7
S	2.1	13.1	10.8	3.1	.1	.0		29.2	11.8	31.9	24.3	25.6	31.7	36.2	28.3	30.0	22.5
SW	1.4	6.3	4.4	1.0	*	.0		13.2	10.6	11.7	21.5	11.6	18.6	8.7	11.6	10.8	14.0
W	1.1	2.7	1.4	.0	.0	.0		5.2	7.4	6.2	6.9	5.6	5.4	4.0	2.5	8.3	5.9
NW	.9	2.4	1.7	.1	.1	.0		5.1	9.2	7.1	2.1	6.6	4.2	6.4	2.5	3.8	5.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	4.3	1.4	4.7	2.0	4.2	3.0	5.0	4.5
TOT OBS	116	360	259	65	8	1	809		10.7	141	72	129	101	118	99	60	89
TOT PCT	14.3	44.5	32.0	8.0	1.0	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				≥1+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					06	12	18	
N	4.2	7.2	4.3	1.0	.0		16.7	12.9	17.6	19.2	15.7	13.1	
NE	3.0	3.9	1.3	.8	.0		8.9	11.7	8.1	7.4	9.3	11.9	
E	3.2	3.5	1.2	.6	.2		8.7	12.0	7.2	7.1	10.8	10.4	
SE	4.4	3.8	.9	.2	*		9.2	8.7	7.6	8.8	9.9	11.1	
S	7.4	15.8	5.3	.8	.0		29.2	11.8	29.3	28.3	32.6	23.5	
SW	4.6	6.2	1.8	.6	.0		13.2	10.6	15.0	14.7	10.0	12.8	
W	2.8	2.3	.1	.0	.0		5.2	7.4	6.3	5.5	3.3	5.7	
NW	2.0	2.7	.4	.1	.0		5.1	9.2	5.4	5.5	4.6	4.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.7						3.7	.0	3.3	3.5	3.7	4.7	
TOT OBS	286	366	123	32	2	809		10.7	213	230	217	149	
TOT PCT	35.4	45.2	15.2	4.0	.2	100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974

MAY

AREA 0018 TATAR STRAIT S
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.3	9.9	43.2	34.3	7.0	1.9	.5	11.1	100.0	213
0600	3.5	11.3	38.3	39.6	7.4	.0	.0	10.9	100.0	230
1200	3.7	12.9	45.2	28.6	8.8	.9	.0	10.5	100.0	217
1800	4.7	7.4	55.0	22.1	9.4	1.3	.0	10.5	100.0	149
TOT	30	86	360	259	65	8	1	10.7		809
PCT	3.7	10.6	44.5	32.0	8.0	1.0	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL DBSCD	MEAN CLOUD COVER
N	1.1	2.4	6.4	9.5		6.5
NE	1.0	.8	1.6	5.5		6.5
E	1.2	.5	.8	4.8		6.2
SE	.5	.2	1.5	4.4		6.9
S	7.6	3.0	6.1	13.0		5.3
SW	2.5	.6	2.8	5.0		5.5
W	1.9	.6	1.8	1.2		4.3
NW	1.2	.7	1.4	2.5		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.8	.5	.9	2.7		5.1
TOT DBS	83	41	103	215	442	5.8
TOT PCT	18.8	9.3	23.3	48.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL DBS
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	
N	1.2	.2	.2	.4	2.6	5.6	2.4	.6	.2	.5	5.4	
NE	.7	.0	.2	.3	3.3	2.1	.1	.0	.2	.0	2.0	
E	.5	.0	.2	.4	1.1	2.1	.7	.0	.0	.5	1.9	
SE	2.0	.0	.0	.5	.2	1.2	.9	.3	.2	.2	1.0	
S	6.5	.5	.4	.2	2.4	4.6	2.0	.4	.5	.6	11.6	
SW	2.6	.0	.1	.5	1.3	.8	.0	1.0	.1	.1	4.6	
W	.5	.0	.0	.2	.3	.6	.0	.2	.2	.2	3.1	
NW	.3	.0	.2	.7	.7	.8	.5	.1	.0	.1	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.2	.0	.2	.7	.5	.2	.2	.0	.0	2.7	
TOT DBS	68	4	6	15	56	81	30	12	7	9	154	442
TOT PCT	15.4	.9	1.4	3.4	12.7	18.3	6.8	2.7	1.6	2.0	34.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >5000	4.7	6.2	6.4	6.4	6.4	6.4	6.4	6.4
= OR >3500	8.7	11.5	13.0	13.2	13.2	13.2	13.2	13.2
= OR >2000	20.3	27.9	31.1	31.6	31.6	31.6	31.6	31.6
= OR >1000	26.7	37.5	42.6	43.3	43.5	43.5	43.7	43.7
= OR >600	27.3	39.4	45.2	46.5	46.7	46.9	47.1	47.1
= OR >300	27.7	40.3	46.3	47.5	48.0	48.2	48.4	48.4
= OR >150	28.4	40.9	46.9	48.6	49.0	49.3	49.5	49.5
= OR >0	28.6	43.3	50.7	53.9	55.4	57.6	63.8	64.8
TOTAL	134	203	238	253	260	270	299	304

TOTAL NUMBER OF DBS: 469

PCT FREQ NM <5/8: 35.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
	15.1	3.1	7.3	4.9	4.3	4.7	7.1	8.2	30.6	490

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.3	.0	.0	.0	.0	.0	.2	.0	.0	.7	
	NO PCP	.5	.6	.5	.7	4.4	1.9	.2	.2	.0	.5	9.6	
	TOT %	.7	.9	.5	.7	4.4	1.9	.2	.4	.0	.5	10.3	
1/2<1	PCP	.3	.2	.0	.1	.1	.1	.0	.0	.0	.0	.8	
	NO PCP	.2	.1	.1	.5	.8	.2	.1	.1	.0	.0	2.2	
	TOT %	.5	.2	.1	.7	.9	.4	.1	.1	.0	.0	3.0	
1<2	PCP	.1	.1	.1	.0	.5	.2	.0	.0	.0	.0	1.0	
	NO PCP	.2	.2	.0	.2	1.4	.5	.2	.1	.0	.0	2.9	
	TOT %	.2	.3	.1	.2	1.9	.7	.2	.1	.0	.0	3.8	
2<5	PCP	.8	.7	.3	.5	.9	.1	.0	.1	.0	.2	3.5	
	NO PCP	.7	.1	.1	.9	3.1	.4	.5	.0	.0	.2	6.0	
	TOT %	1.5	.8	.4	1.4	4.0	.4	.5	.1	.0	.5	9.5	
5<10	PCP	.8	.6	.5	.3	.6	.4	.0	.1	.0	.0	3.4	
	NO PCP	3.3	.6	2.3	1.5	6.1	2.1	.3	1.0	.0	.6	17.8	
	TOT %	4.0	1.3	2.9	1.8	6.6	2.5	.3	1.2	.0	.6	21.2	
10+	PCP	.2	.3	.3	.0	.4	.1	.0	.1	.0	.0	1.4	
	NO PCP	9.6	4.9	4.4	4.5	11.9	6.0	3.6	3.3	.0	2.6	50.8	
	TOT %	9.8	5.2	4.7	4.5	12.2	6.1	3.6	3.4	.0	2.6	52.2	
TOT OBS													835
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.4	.1	.3	.3	.2	.4	.0	.0	.5	2.2	
	4-10	.6	.6	.5	.4	2.3	.4	.0	.2	.0	.0	5.0	
	11-21	.1	.1	.1	.1	1.0	1.2	.0	.1	.0	.0	2.6	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.4	
	TOT %	.7	1.0	.7	.9	4.0	1.8	.4	.3	.0	.5	10.2	
1/2<1	0-3	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.5	
	4-10	.4	.1	.2	.2	.4	.3	.1	.1	.0	.0	1.9	
	11-21	.2	.1	.0	.3	.2	.1	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.2	.2	.7	.8	.6	.1	.1	.0	.0	3.4	
1<2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	4-10	.2	.3	.1	.1	.6	.6	.2	.1	.0	.0	2.4	
	11-21	.0	.2	.1	.0	.8	.3	.0	.0	.0	.0	1.5	
	22+	.0	.0	.1	.0	.5	.0	.0	.0	.0	.0	.6	
	TOT %	.4	.6	.4	.1	2.0	1.0	.2	.1	.0	.0	4.7	
2<5	0-3	.1	.1	.0	.2	.6	.5	.1	.2	.0	.5	2.2	
	4-10	.7	.5	.3	.6	1.2	.4	.4	.1	.0	.0	4.1	
	11-21	.6	.6	.1	.6	2.0	.2	.1	.0	.0	.0	4.2	
	22+	.3	.1	.0	.0	.7	.1	.0	.1	.0	.0	1.2	
	TOT %	1.7	1.2	.4	1.5	4.5	1.2	.6	.4	.0	.5	11.9	
5<10	0-3	.2	.4	.2	.2	.2	.0	.1	.2	.0	.4	1.9	
	4-10	1.2	.3	.9	.9	3.1	1.2	.2	.4	.0	.0	8.2	
	11-21	1.5	.3	.9	.7	2.2	.9	.0	.5	.0	.0	7.0	
	22+	.9	.1	.7	.0	.8	.3	.0	.0	.0	.0	2.9	
	TOT %	3.7	1.1	2.7	1.8	6.4	2.4	.3	1.1	.0	.4	20.0	
10+	0-3	.9	.3	.5	.9	.7	.6	.6	.5	.0	2.1	7.1	
	4-10	3.7	2.1	2.5	2.6	5.4	3.3	1.7	1.6	.0	.0	22.8	
	11-21	3.7	1.9	1.0	.5	4.7	1.7	1.3	1.1	.0	.0	15.7	
	22+	1.3	.6	.4	.2	.9	.6	.0	.1	.0	.0	4.1	
	TOT %	9.6	4.9	4.4	4.2	11.6	6.2	3.6	3.2	.0	2.1	49.8	
TOT OBS													801
TOT PCT													100.0

MAY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	14.7	.0	1.2	4.9	11.7	16.0	6.7	3.1	1.8	1.8	62.0	38.0	163
06009	9.5	2.2	.7	2.9	13.1	20.4	8.8	2.9	1.5	2.9	65.0	35.0	137
12015	19.0	1.6	1.6	1.6	13.5	16.7	5.6	1.6	1.6	.0	62.7	37.3	126
18021	21.6	.0	2.0	3.9	9.8	21.6	3.9	3.9	2.0	3.9	72.5	27.5	51
TOT	72	5	6	16	59	86	32	13	8	9	306	171	477
PCT	15.1	1.0	1.3	3.4	12.4	18.0	6.7	2.7	1.7	1.9	64.2	35.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.2	2.8	4.0	8.4	20.3	53.4	251
06009	9.6	2.7	5.8	11.2	16.5	54.2	260
12015	11.0	4.2	4.2	13.3	25.9	41.4	263
18021	10.8	3.2	5.1	17.1	15.8	48.1	158
TOT	99	30	44	112	187	460	932
PCT	10.6	3.2	4.7	12.0	20.1	49.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	14.9	18.0	28.0	37.9	34.2	161
06009	9.6	13.2	23.5	44.1	32.4	136
12015	19.7	23.8	36.1	30.3	33.6	122
18021	22.0	26.0	42.0	36.0	22.0	50
TOT	72	89	142	176	151	469
PCT	15.4	19.0	30.3	37.5	32.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	1.5	.0	1	1.5
50/54	.0	.0	1.5	.0	.0	.0	6.2	3.1	7	10.8
45/49	.0	.0	.0	1.5	4.6	3.1	4.6	10.8	16	24.6
40/44	.0	.0	.0	.0	.0	7.7	9.2	18.5	23	35.4
35/39	.0	.0	.0	.0	.0	3.1	3.1	20.0	17	26.2
30/34	.0	.0	.0	.0	.0	.0	.0	1.5	1	1.5
TOTAL	0	0	1	1	3	9	16	35	65	100.0
PCT	.0	.0	1.5	1.5	4.6	13.8	24.6	53.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0
50/54	.0	.0	.0	.0	5.8	2.3	1.2	1.5	.0	.0
45/49	1.2	1.5	1.5	4.6	10.8	1.5	2.7	.8	.0	.0
40/44	12.3	4.6	3.1	1.5	5.8	1.9	2.3	3.8	.0	.0
35/39	7.3	1.9	1.5	.4	5.8	6.2	1.5	1.5	.0	.0
30/34	.0	.0	.0	.0	1.2	.4	.0	.0	.0	.0
TOTAL	20.8	8.1	6.2	6.5	29.2	13.8	7.7	7.7	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	60	54	43	37	34	32	44.1	240
06009	59	57	54	43	36	34	32	43.9	250
12015	59	56	50	41	36	28	28	41.8	254
18021	59	52	47	41	34	34	32	41.0	159
TOT	62	57	52	43	36	32	28	42.9	903

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.0	5.0	10.0	25.0	55.0	85	20		
06009	.0	4.8	4.8	19.0	33.3	38.1	85	21		
12015	.0	.0	6.7	13.3	20.0	60.0	88	15		
18021	.0	.0	.0	11.1	11.1	77.8	95	9		
TOT	0	2	3	9	16	35	87	65		

MAY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974

TABLE 17

AREA 0018 TATAR STRAIT S
48.0N 141.2EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	3	.1	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.5	.7	.1	10	.1	1.2
11/13	.0	.0	.0	.0	.3	.9	1.3	1.0	.4	.0	30	.8	3.1
9/10	.0	.0	.0	.0	.3	.9	1.6	.8	.0	.0	27	.3	3.3
7/8	.0	.0	.0	.0	1.4	3.0	.9	.5	.0	.0	45	.9	5.0
6	.0	.0	.0	.1	.8	1.0	.9	.0	.0	.0	22	.7	2.2
5	.0	.0	.1	.8	2.5	5.0	1.2	.0	.0	.0	73	3.3	6.3
4	.0	.0	.3	2.4	3.4	5.2	.5	.1	.0	.0	91	2.1	9.8
3	.0	.0	.1	.9	2.5	1.8	.4	.0	.1	.0	45	1.0	4.8
2	.0	.0	.9	4.6	5.8	4.5	.4	.0	.0	.0	123	3.8	12.3
1	.0	.0	.1	1.0	2.2	.4	.0	.0	.0	.0	29	.8	3.0
0	.0	.3	.9	5.1	4.5	1.6	.1	.0	.0	.0	95	2.2	10.2
-1	.0	.0	.3	2.5	1.6	.1	.0	.0	.0	.0	34	.7	3.8
-2	.0	.1	1.8	3.7	2.1	1.2	.0	.0	.0	.0	68	1.4	7.5
-3	.0	.0	.1	.3	.5	.3	.0	.0	.0	.0	9	.1	1.0
-4	.0	.0	.3	.7	.5	.3	.1	.0	.0	.0	14	.3	1.6
-5	.0	.0	.7	.5	.3	.0	.0	.0	.0	.0	11	.3	1.2
-6	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	4	.0	.5
-7/-8	.0	.0	.1	.4	.3	.1	.0	.0	.0	.0	7	.4	.5
-9/-10	.1	.1	.1	.1	.1	.3	.1	.0	.0	.0	8	.0	1.0
-11/-13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	3	.1	.3
-14/-16	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	5	.3	.4
-17/-19	.1	.1	.0	.0	.4	.0	.0	.0	.0	.0	5	.0	.7
TOTAL	2	6	50	181	225	203	58	25	12	1	763	150	613
PCT	.3	.8	6.6	23.7	29.5	26.6	7.6	3.3	1.6	.1	100.0	19.7	80.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	2.5	.0	.0	.0	.0	3.4	.1	.5	.0	.0	.0	.0	.6
1-2	.3	2.0	.0	.0	.0	.0	4.9	.0	1.0	1.1	.0	.0	.0	2.1
3-4	.0	.5	2.3	.5	.0	.0	3.2	.0	.9	1.1	.1	.0	.0	2.1
5-6	.0	.0	2.2	.6	.0	.0	2.8	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.9	1.6	.0	.0	2.5	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.3	.3	.0	.6	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.3	.2	.3	.0	.9	.0	.0	.0	.1	.3	.0	.4
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	5.0	8.6	3.9	.6	.0	19.3	.1	2.4	4.7	.8	.6	.0	8.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.7	.0	.0	.0	.0	1.7	.9	.3	.0	.0	.0	.0	1.3
1-2	.0	.0	.9	.0	.0	.0	.9	.0	.6	1.0	.0	.0	.0	1.7
3-4	.0	.3	.5	.3	.0	.0	1.1	.0	.5	1.4	.0	.0	.0	1.9
5-6	.0	.0	.6	.3	.0	.0	.9	.0	.1	.4	.3	.0	.0	.8
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.3	.2	.0	.6	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.3	.0	.3	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.4	1.3	.2	.3	6.2	.9	1.5	3.1	.3	.1	.0	5.9

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	1.6	.0	.0	.0	3.9	.0	1.6	.1	.0	.0	.0	1.7
1-2	.0	4.1	3.4	.0	.0	.0	7.5	.0	1.3	1.3	.0	.0	.0	2.6
3-4	.0	1.7	6.1	.6	.0	.0	8.4	.0	.4	3.0	.0	.0	.0	3.4
5-6	.0	.2	4.8	1.5	.0	.0	6.5	.0	.0	1.8	.1	.0	.0	1.9
7	.0	.0	1.3	1.8	.0	.0	3.1	.0	.3	.3	1.0	.0	.0	1.7
8-9	.0	.0	.0	1.3	.2	.0	1.5	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.3	.2	.6	.0	.0	1.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.3	.3	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.0	18.0	6.1	.2	.0	33.3	.0	3.6	6.8	1.1	.1	.0	11.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.5	.2	.0	.0	.0	1.7	.3	.6	.0	.0	.0	.0	.9	
1-2	.2	1.2	.3	.0	.0	.0	1.7	.1	.5	2.3	.0	.0	.0	2.8	
3-4	.0	.6	.8	.0	.0	.0	1.3	.0	.5	.3	.1	.0	.0	.9	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.5	1.6	.0	.0	.0	5.3	.4	1.6	2.9	.1	.0	.0	5.0	93.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.9	11.0	1.9	.0	.0	.0	19.8	
1-2	.6	10.7	12.9	.0	.0	.0	24.2	
3-4	.0	5.3	15.4	1.6	.0	.0	22.3	
5-6	.0	.3	11.6	2.8	.0	.0	14.8	
7	.0	.3	4.1	4.4	.0	.0	8.8	
8-9	.0	.0	.3	2.2	.9	.0	3.5	
10-11	.0	.6	.6	1.3	.6	.3	3.5	
12	.0	.0	.6	.6	.0	.0	1.2	
13-16	.0	.3	.6	.6	.3	.0	1.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	28.6	48.1	13.5	1.9	.3	100.0	318

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	13.4	11.7	8.0	2.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163
6-7	.0	1.6	3.3	3.3	3.3	2.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76
8-9	.0	.2	.5	1.2	1.4	.9	.7	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
10-11	.0	1.2	.2	.9	.2	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
12-13	.0	.0	1.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
>13	.0	.0	.0	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	7.5	7.3	8.9	5.9	1.4	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135
TOTAL	39	101	110	84	41	21	16	6	8	0	0	0	0	0	0	0	0	0	0	0	426
PCT	9.2	23.7	25.8	19.7	9.6	4.9	3.8	1.4	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

JUNE

AREA 0018 TATAR STRAIT S
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.3	.9	6.3	.0	.0	.0	.0	9.5	.0	.0	13.6	.0	.9	.9	75.1
NE	8.0	1.0	3.0	.0	.0	.0	.0	12.0	1.3	.0	17.5	.0	1.0	1.0	67.2
E	9.1	1.8	6.3	.0	.0	.0	.0	17.2	2.1	.0	9.4	.0	.0	.0	71.3
SE	10.0	.4	4.8	.0	.0	.0	.0	15.3	1.2	.0	28.9	.0	.8	.0	53.8
S	2.3	.0	3.7	.0	.0	.0	.0	6.0	.5	.0	44.1	1.6	.0	.0	47.8
SW	4.3	.0	2.0	.0	.0	.0	.0	6.3	.0	1.0	36.5	.3	.0	.0	56.0
W	5.4	.0	6.3	.0	.0	.0	.0	11.6	3.8	.0	24.1	.0	.0	.0	60.7
NW	7.8	.0	3.3	.0	.0	.0	.0	11.1	2.8	.0	19.0	.0	.0	.0	67.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.3	.0	1.3	.0	.0	.0	.0	7.5	.0	.0	35.0	2.5	1.3	.0	53.8
TOT PCT	5.3	.4	4.0	.0	.0	.0	.0	9.7	.8	.1	29.7	.7	.4	.2	58.3
TOT OBS:	957														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	4.1	.0	.9	.0	.0	.0	.0	5.1	.9	.0	35.5	.9	.5	.5	56.7
06009	3.3	.8	4.1	.0	.0	.0	.0	8.1	.4	.0	30.1	1.6	.0	.4	59.3
12015	8.2	.3	5.7	.0	.0	.0	.0	14.2	1.2	.0	23.6	.3	1.2	.0	59.5
18021	3.6	.5	3.6	.0	.0	.0	.0	7.7	1.5	.5	30.3	.0	.0	.0	60.0
TOT PCT	5.2	.4	3.8	.0	.0	.0	.0	9.4	1.0	.1	29.1	.7	.5	.2	58.9
TOT OBS:	989														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.4	5.8	2.9	.2	.1	.0		10.4	9.1	17.7	15.3	7.9	15.6	8.7	8.6	7.2	10.3	
NE	.9	5.3	4.0	.7	.0	.0		11.0	10.6	14.5	10.4	15.2	8.3	8.2	10.1	13.5	7.6	
E	1.4	2.9	3.3	.5	.1	.0		8.2	11.2	5.2	6.9	9.6	3.3	10.8	8.2	5.7	14.7	
SE	1.8	7.2	3.9	.3	.1	.0		13.3	9.6	12.9	16.0	12.3	11.3	9.6	15.3	12.9	20.1	
S	3.0	15.5	12.1	1.2	.0	.0		31.8	10.2	28.4	36.8	28.5	34.0	33.1	31.7	37.6	27.2	
SW	1.5	6.0	3.4	.4	.0	.0		11.3	9.2	11.5	9.0	11.3	16.0	12.0	12.7	8.3	6.5	
W	.2	1.7	.4	.0	.0	.0		2.3	8.3	7.8	.7	2.7	1.9	2.4	2.6	4.0	.5	
NW	.3	2.8	.3	.0	.0	.0		3.4	6.6	3.0	2.1	1.7	4.0	3.9	4.9	2.6	4.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.2							8.2	.0	9.9	2.8	10.8	5.7	11.4	6.0	8.0	8.7	
TOT OBS	171	432	276	30	3	0	912		9.0	124	72	130	106	167	134	87	92	
TOT PCT	18.8	47.4	30.3	3.3	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.9	5.6	.8	.1	.0		10.4	9.1	13.6	11.3	8.6	8.8		
NE	3.0	6.3	1.7	.0	.0		11.0	10.6	13.0	12.1	9.1	10.5		
E	2.9	3.6	1.4	.4	.0		8.2	11.2	5.9	6.8	9.6	10.3		
SE	5.4	6.4	1.3	.1	.1		13.3	9.6	14.0	11.9	12.1	16.6		
S	10.0	16.9	4.9	.0	.0		31.8	10.2	31.5	30.9	32.5	32.3		
SW	4.4	3.6	1.3	.0	.0		11.3	9.2	10.8	13.5	12.3	7.4		
W	.8	1.3	.1	.0	.0		2.3	8.3	2.0	2.3	2.5	2.2		
NW	1.9	1.5	.0	.0	.0		3.4	6.6	2.7	2.8	4.3	3.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	8.2						8.2	.0	6.6	8.5	9.0	8.4		
TOT OBS	370	431	104	6	1	912		9.0	198	236	301	179		
TOT PCT	40.6	47.3	11.4	.7	.1		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.6	9.2	45.9	34.2	4.1	.0	.0	9.4	100.0	196
06009	8.5	9.7	45.3	30.1	6.4	.0	.0	9.6	100.0	236
12015	9.0	11.3	49.8	27.9	1.3	.7	.1	8.6	100.0	301
18021	8.4	11.7	47.5	30.2	1.7	.6	.0	8.5	100.0	179
TOT	75	96	432	276	30	3	0	9.0		912
PCT	8.2	10.5	47.4	30.3	3.3	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	2.5	.9	4.1	3.9		5.5
Ne	1.4	.5	2.0	6.1		6.5
E	1.5	.7	1.4	5.4		6.2
SE	1.8	1.4	1.6	7.6		6.3
S	6.0	2.3	2.8	18.4		6.0
SW	2.4	.7	1.6	5.0		5.7
W	.7	1.0	.7	1.5		5.3
NW	.4	.3	1.1	1.8		6.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.3	1.5	6.0		5.9
TOT OBS	99	49	91	298	537	6.0
TOT PCT	18.4	9.1	16.9	55.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.1	.2	.3	2.3	2.5	1.2	.2	.1	.3	4.0	
Ne	1.4	.0	.4	.2	1.9	2.7	.7	.0	.0	.4	2.3	
E	.9	.0	.3	.4	2.7	1.9	.6	.0	.0	.1	2.2	
SE	2.9	.7	.2	.2	2.8	2.0	.2	.0	.4	.1	3.4	
S	11.5	.0	.2	.7	3.1	3.3	.2	.4	.2	.5	9.5	
SW	3.2	.0	.2	.2	.6	1.7	.0	.2	.0	.2	3.4	
W	1.0	.0	.2	.0	.3	.3	.0	.0	.2	.2	1.6	
NW	.3	.0	.0	.2	.8	1.0	.5	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1	.0	.0	.2	.6	1.1	.6	.2	.2	.2	3.5	
TOT OBS	137	2	9	13	80	88	21	5	6	11	165	537
TOT PCT	25.5	.4	1.7	2.4	14.9	16.4	3.9	.9	1.1	2.0	30.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >4000	2.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2
= OR >3500	5.3	8.0	8.2	8.2	8.2	8.2	8.2	8.2
= OR >2000	13.5	21.3	23.1	24.2	24.4	24.7	24.7	24.7
= OR >1000	19.3	32.4	37.5	38.5	38.9	39.5	39.5	39.5
= OR >600	19.8	33.8	39.5	40.5	41.1	41.6	41.8	41.8
= OR >300	19.8	34.5	40.7	42.0	42.5	43.1	43.3	43.3
= OR >150	20.2	34.9	41.1	42.4	42.9	43.5	43.6	43.6
= OR >0	20.5	36.5	44.7	46.7	48.7	56.9	66.7	68.9
TOTAL	113	201	246	257	260	313	367	379

TOTAL NUMBER OF OBS: 550

PCT FREQ NM <5/8: 31.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.5	3.1	9.4	4.6	2.9	4.1	5.7	6.5	29.0 24.2	583

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.2	.2	.0	.0	.0	.0	.5	
	NO PCP	.9	1.0	.4	2.0	9.9	3.2	.5	.4	.0	2.0	19.9	
	TOT %	.9	1.1	.4	2.0	10.0	3.4	.5	.4	.0	2.0	20.4	
1/2<1	PCP	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.0	.0	.4	.7	.1	.1	.0	.0	.2	1.6	
	TOT %	.1	.1	.1	.5	.8	.1	.1	.0	.0	.2	2.0	
1<2	PCP	.0	.2	.1	.3	.5	.1	.1	.1	.0	.1	1.4	
	NO PCP	.9	.2	.3	.3	.6	.2	.1	.1	.0	.1	2.1	
	TOT %	.9	.4	.4	.5	1.1	.2	.1	.1	.0	.2	3.5	
2<5	PCP	.9	.4	.3	.8	.6	.2	.1	.2	.0	.1	3.2	
	NO PCP	.7	.9	.6	.6	2.1	.5	.1	.4	.0	.3	6.3	
	TOT %	1.2	1.3	1.0	1.4	2.7	.7	.2	.6	.0	.4	9.5	
5<10	PCP	.9	.4	.8	.7	.4	.2	.1	.2	.0	.4	3.7	
	NO PCP	1.8	2.1	1.7	2.4	4.0	1.3	.5	.7	.0	1.4	15.8	
	TOT %	2.4	2.5	2.4	3.0	4.4	1.4	.6	.9	.0	1.8	19.5	
10+	PCP	.1	.0	.2	.2	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	6.9	4.9	4.2	5.4	11.5	4.5	1.4	2.0	.0	3.8	44.6	
	TOT %	7.0	4.9	4.4	5.5	11.6	4.6	1.5	2.0	.0	3.8	45.2	
TOT OBS													951
TOT PCT													
		11.6	10.3	8.7	13.0	30.5	10.5	2.9	4.0	.0	8.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.2	.4	1.3	.5	.1	.0	.0	2.0	4.6	
	4-10	.4	.8	.1	1.2	4.4	2.0	.1	.4	.0		9.4	
	11-21	.1	.3	.0	.4	4.4	1.1	.0	.0	.0		6.3	
	22+	.0	.0	.0	.1	.4	.3	.0	.0	.0		.8	
	TOT %	.6	1.2	.3	2.1	10.5	3.8	.2	.4	.0	2.0	21.1	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.1	.1	.0	.3	.7	.1	.0	.0	.0		1.2	
	11-21	.0	.0	.1	.0	.4	.1	.1	.0	.0		.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.2	.4	1.1	.1	.1	.0	.0	.2	2.4	
1<2	0-3	.2	.0	.0	.0	.1	.0	.0	.0	.0	.1	.5	
	4-10	.2	.1	.2	.3	.6	.1	.1	.1	.0		1.8	
	11-21	.1	.1	.2	.1	.4	.1	.0	.0	.0		1.1	
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0		.2	
	TOT %	.5	.4	.4	.5	1.2	.3	.1	.1	.0	.1	3.6	
2<5	0-3	.2	.1	.1	.4	.2	.2	.0	.1	.0	.3	1.5	
	4-10	.5	1.0	.3	1.2	1.5	.7	.1	.6	.0		5.8	
	11-21	.6	.4	.2	.5	1.4	.4	.0	.0	.0		3.4	
	22+	.0	.0	.4	.1	.1	.0	.0	.0	.0		.7	
	TOT %	1.3	1.4	1.0	2.2	3.1	1.2	.1	.6	.0	.3	11.3	
5<10	0-3	.1	.5	.2	.2	.2	.2	.1	.0	.0	1.9	3.4	
	4-10	1.3	.8	1.0	1.6	2.3	.8	.4	.5	.0		8.7	
	11-21	.7	1.2	1.2	1.1	1.9	.5	.0	.0	.0		6.7	
	22+	.2	.1	.1	.1	.0	.0	.0	.0	.0		.6	
	TOT %	2.3	2.7	2.5	3.1	4.5	1.4	.5	.5	.0	1.9	19.3	
10+	0-3	.8	.3	.8	.8	1.2	.7	.0	.3	.0	3.5	8.6	
	4-10	3.5	2.4	1.5	2.8	6.0	2.2	1.0	1.3	.0		20.7	
	11-21	1.4	1.8	1.6	1.7	3.6	1.3	.3	.3	.0		12.0	
	22+	.1	.1	.1	.0	.6	.0	.0	.0	.0		1.0	
	TOT %	5.8	4.7	4.0	5.3	11.4	4.2	1.4	1.9	.0	3.5	42.3	
TOT OBS													885
TOT PCT													
		10.6	10.5	8.4	13.5	31.8	11.2	2.4	3.5	.0	8.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	31.5	.0	.7	2.8	8.4	18.9	6.3	.7	.7	2.1	72.0	28.0	143
06009	19.6	.7	2.1	3.5	17.5	18.9	2.8	1.4	.7	2.8	69.9	30.1	143
12015	23.8	.6	1.1	1.7	14.9	14.9	4.4	1.7	2.2	1.7	66.9	33.1	181
18021	27.4	.0	3.2	1.1	17.9	11.6	1.1	.0	.0	1.1	63.2	36.8	95
TOT	142	2	9	13	81	92	22	6	6	11	384	178	962
PCT	25.3	.4	1.6	2.3	14.4	16.4	3.9	1.1	1.1	2.0	68.3	31.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	28.4	1.4	4.1	8.7	15.1	42.2	218
06009	19.6	3.8	2.7	12.3	15.4	46.2	260
12015	14.7	1.7	3.7	13.8	23.3	42.7	347
18021	20.6	2.0	5.0	8.5	18.6	45.2	199
TOT	205	23	39	116	191	450	1024
PCT	20.0	2.2	3.8	11.3	18.7	43.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
(GMT)						
00003	31.4	33.6	43.6	30.7	25.7	140
06009	19.7	27.5	39.4	35.2	25.4	142
12015	23.7	26.0	36.7	33.3	29.9	177
18021	27.5	30.8	38.5	28.6	33.0	91
TOT	139	160	217	178	155	550
PCT	25.3	29.1	39.5	32.4	28.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	1.8	.0	.0	1.8	.0	.0	.0	2	3.5
55/59	.0	1.8	3.5	.0	.0	1.8	1.8	.0	5	8.8
50/54	.0	.0	.0	3.5	.0	1.8	10.5	12.3	16	28.1
45/49	.0	.0	.0	3.5	1.8	10.5	7.0	17.5	23	40.4
40/44	.0	.0	.0	.0	.0	.0	3.5	15.8	11	19.3
TOTAL	.0	2	2	4	2	8	13	26	57	100.0
PCT	.0	3.5	3.5	7.0	3.5	14.0	22.8	45.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	3.5	.0	.0	.0	.0	.0
1.8	.0	.0	1.8	3.1	2.2	.0	.0	.0	.0
4.4	4.4	1.3	3.9	11.4	.4	.0	.4	.0	1.8
3.5	5.3	5.3	5.7	4.4	5.7	1.8	1.8	.0	7.0
6.6	5.7	3.1	.4	1.3	.4	.0	.0	.0	1.8
16.2	15.4	9.6	11.8	23.7	8.8	1.8	2.2	.0	10.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	73	65	60	50	41	32	32	50.8	226
06009	72	68	63	51	43	40	39	51.8	261
12015	68	63	57	48	41	37	33	49.0	353
18021	66	61	56	48	41	39	37	48.6	196
TOT	73	66	59	50	41	37	32	50.0	1036

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	42.9	.0	28.6	28.6	.0	63	7
06009	.0	10.5	.0	15.8	36.8	36.8	82	19
12015	.0	10.0	5.0	15.0	15.0	55.0	84	20
18021	.0	9.1	9.1	.0	9.1	72.7	89	11
TOT	0	8	2	8	13	26	82	57

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.2
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.4	.2	.1	.3	.1	.0	11	.4	.8
17/19	.0	.0	.0	.0	.0	.1	.1	.3	.0	.1	.1	.0	7	.1	.7
14/16	.0	.0	.0	.0	.3	.2	.2	.4	.2	.0	.0	.0	13	.4	1.0
11/13	.0	.0	.0	.1	.2	.0	.4	1.0	.8	.2	.1	.0	26	.4	2.5
9/10	.0	.0	.0	.0	.1	.9	.9	.3	.6	.0	.0	.0	25	.4	2.3
7/8	.0	.0	.0	.0	1.0	1.8	1.8	1.2	.3	.1	.0	.0	56	1.3	4.5
6	.0	.0	.0	.0	.3	1.5	.4	.2	.1	.0	.0	.0	23	.2	2.3
5	.0	.0	.0	.2	.9	2.5	2.0	.9	.2	.0	.0	.0	60	2.2	4.5
4	.0	.0	.1	.3	2.6	3.7	2.3	.9	.0	.0	.0	.0	89	2.9	7.0
3	.0	.0	.0	.1	.2	1.2	1.6	.2	.0	.0	.0	.0	30	1.1	2.2
2	.0	.0	.1	1.5	7.3	5.4	2.2	.8	.2	.0	.0	.0	156	5.8	11.6
1	.0	.0	.0	.9	2.6	1.7	.8	.1	.0	.0	.0	.0	54	2.2	3.8
0	.0	.0	1.0	1.8	6.1	4.7	2.0	.1	.4	.0	.0	.0	145	4.6	11.6
-1	.0	.0	.1	.7	2.2	1.0	1.0	.1	.0	.0	.0	.0	46	1.6	3.6
-2	.0	.1	.4	1.9	2.6	2.0	.3	.0	.0	.0	.0	.0	66	1.7	5.7
-3	.0	.0	.0	.3	1.3	.3	.2	.0	.0	.0	.0	.0	20	.7	1.6
-4	.0	.0	.4	.8	.7	.6	.0	.0	.0	.0	.0	.0	22	.4	2.0
-5	.0	.0	.1	.1	.4	.7	.1	.1	.0	.0	.0	.0	14	.4	1.1
-6	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	6	.1	.6
-7/-8	.0	.0	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	8	.1	.8
-9/-10	.0	.0	.2	.1	.1	.0	.0	.1	.0	.0	.0	.0	5	.3	.2
-11/-13	.1	.1	.0	.1	.3	.1	.1	.0	.0	.0	.0	.0	8	.4	.4
-14/-16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	7	26	84	255	153	65	3.0	.9	.3	.1	.0	895	25.6	63.9
PCT	.1	.2	2.9	9.4	30.2	28.5	17.1	7.3	3.0	.9	.3	.1	100.0	28.6	71.4

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.7	.4	.0	.0	.0	2.4	.7	1.8	.2	.0	.0	.0	2.8
1-2	.0	1.8	1.1	.0	.0	.0	3.0	.0	1.1	1.8	.0	.0	.0	3.0
3-4	.2	.5	2.0	.0	.0	.0	2.7	.0	.5	2.4	.0	.0	.0	2.9
5-6	.0	.2	.7	.2	.0	.0	1.2	.0	.5	1.3	.0	.0	.0	1.8
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.2	.0	.0	.2	.0	.4	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.5	4.2	.4	.2	.0	9.9	.7	3.9	6.3	1.1	.0	.0	12.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.4	.4	1.7	.0	.0	.0	.0	2.1
1-2	.2	1.5	1.6	.0	.0	.0	3.3	.3	2.6	2.0	.0	.0	.0	5.0
3-4	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	.5	1.0	.0	.0	1.5	.0	.0	.8	.2	.0	.0	1.0
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.6	4.4	1.2	.2	.0	8.8	.7	4.4	5.9	.7	.3	.0	12.0

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.5	.2	.0	.0	.0	5.6	.5	1.1	.5	.0	.0	.0	2.1
1-2	.2	3.7	6.2	.0	.0	.0	12.1	.0	3.0	1.2	.0	.0	.0	4.2
3-4	.2	1.0	7.3	.5	.0	.0	9.0	.0	.2	1.2	.2	.0	.0	1.7
5-6	.0	.0	3.4	1.4	.0	.0	4.9	.0	.0	.7	.1	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2	.0	.2	.3	.0	.0	.0	.6
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	10.2	17.5	2.2	.0	.0	32.2	.5	4.6	4.2	.3	.0	.0	9.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.9	.1	.0	.0	.0	.9	
1-2	.0	.7	.5	.0	.0	.0	1.2	.0	1.2	.1	.0	.0	.0	1.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.6	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	.7	.0	.0	.0	2.2	.0	2.6	.4	.0	.0	.0	3.1	89.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.0	12.8	1.5	.0	.0	.0	28.3	
1-2	.7	17.7	14.5	.0	.0	.0	33.0	
3-4	.5	2.7	17.7	.7	.0	.0	21.7	
5-6	.0	.7	7.9	3.0	.0	.0	11.6	
7	.0	.2	.7	1.0	.2	.0	2.2	
8-9	.0	.2	1.0	.5	.2	.0	2.0	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.2	.2	.2	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.3	34.5	43.6	5.9	.7	.0	100.0	406

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	19.6	14.1	6.3	1.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	3
6-7	.0	2.0	3.7	3.1	1.0	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	4
8-9	.0	.0	.8	.6	.6	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
10-11	.0	2.0	.4	.2	.6	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
12-13	.0	.0	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
>13	.0	.0	.0	.8	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
INDEX	15.1	8.2	6.9	1.8	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	2
TOTAL	83	196	134	75	81	11	6	4	0	0	0	0	0	0	0	0	0	0	0	490	3
PCT	16.9	31.8	27.3	15.3	4.3	2.2	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	4.9	1.0	1.7	.0	.0	.0	.0	7.7	1.7	.0	16.8	1.5	.0	.0	72.3
NE	12.2	.0	4.2	.0	.0	.0	.0	16.4	1.7	.0	13.6	.6	.0	.0	65.8
E	6.7	.0	8.8	.0	.0	.0	.0	13.5	1.8	.0	13.7	.0	.0	.0	69.1
SE	11.9	2.2	8.7	.0	.0	.0	.0	22.8	1.3	.0	24.5	.2	.9	.0	50.3
S	6.6	.6	5.1	.0	.0	.0	.0	12.2	1.6	.4	39.8	1.0	.0	.4	44.3
SW	1.4	.0	2.5	.0	.0	.0	.0	3.9	.2	.0	40.7	.9	.0	.0	54.2
W	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	16.7	.0	.0	.0	76.2
NW	1.8	.0	3.6	.0	.0	.0	.0	5.4	.0	.0	28.6	.0	.0	.0	66.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.0	1.2	.0	.0	.0	.0	2.4	1.2	.0	35.4	1.2	.0	.0	59.8
TOT PCT TOT OBS:	6.4 906	.6	4.6	.0	.0	.0	.0	11.6	1.3	.1	28.9	.8	.1	.1	57.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	6.1	.4	7.0	.0	.0	.0	.0	13.6	1.8	.0	28.9	.9	.0	.0	54.8
06009	7.0	.0	3.1	.0	.0	.0	.0	10.1	2.2	.0	28.5	1.8	.0	.0	57.5
12015	8.2	.3	3.8	.0	.0	.0	.0	12.3	1.4	.3	24.7	.3	.3	.0	60.6
18021	3.8	1.6	5.4	.0	.5	.0	.0	11.4	.0	.0	35.3	.5	.0	.5	52.2
TOT PCT TOT OBS:	6.5 932	.5	4.7	.0	.1	.0	.0	11.9	1.4	.1	28.8	.9	.1	.1	56.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.1	5.9	2.5	.4	.1	.0		10.9	9.2	16.1	9.6	6.0	11.0	13.3	10.7	5.7	11.9	
NE	.5	5.6	3.2	.5	.1	.0		10.0	10.7	11.0	10.3	11.0	11.3	9.2	8.1	11.3	8.2	
E	1.1	4.6	4.4	.9	.0	.0		11.0	11.3	10.5	5.1	10.8	11.3	10.7	12.8	13.4	12.9	
SE	1.4	6.1	4.1	.4	.0	.0		11.9	9.5	10.3	10.3	9.9	9.9	15.3	10.3	15.5	13.4	
S	3.5	15.8	11.5	.7	.0	.0		31.5	9.9	32.8	37.2	31.7	29.7	29.1	38.5	22.3	29.9	
SW	1.1	6.2	5.2	.2	.0	.0		12.7	10.0	7.6	19.9	12.7	15.7	10.5	9.8	16.4	14.4	
W	.3	1.4	.4	.0	.0	.0		2.0	6.9	1.6	.6	3.0	4.1	1.9	1.3	.9	3.1	
NW	.8	1.9	.4	.0	.0	.0		3.0	6.4	1.7	4.5	2.8	2.3	2.6	5.1	3.9	2.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.9							6.9	.0	8.5	2.6	12.1	4.7	7.5	3.4	10.7	4.1	
TOT OBS	151	405	269	27	2	0	854		9.2	129	78	116	86	147	117	84	97	
TOT PCT	17.7	47.4	31.5	3.2	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	5.6	3.5	1.4	.4	.0	10.9	9.2	13.6	8.2	12.1	9.0		
NE	3.5	4.4	1.8	.2	.0	10.0	10.7	10.7	11.1	8.7	9.7		
E	3.3	5.2	2.5	.0	.0	11.0	11.3	8.5	11.0	11.6	13.1		
SE	4.5	6.3	1.0	.1	.0	11.9	9.5	10.3	9.9	13.1	14.4		
S	10.5	16.4	4.6	.0	.0	31.5	9.9	34.4	30.8	33.2	26.4		
SW	3.9	7.1	1.7	.0	.0	12.7	10.0	12.2	14.0	10.2	15.3		
W	1.1	1.0	.0	.0	.0	2.0	6.9	1.2	3.5	1.6	2.1		
NW	2.0	.9	.1	.0	.0	3.0	6.4	2.8	2.6	3.7	2.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.9					6.9	.0	6.3	8.9	5.7	7.2		
TOT OBS	353	382	112	7	0	854	9.2	207	202	264	181		
TOT PCT	41.3	44.7	13.1	.8	.0	100.0		100.0	100.0	100.0	100.0		

JULY

PERIOD: (PRIMARY) 1937-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	6.3	10.6	51.7	29.0	2.4	.0	.0	.0	8.9	100.0	207
06009	8.9	11.4	39.1	36.6	3.5	.5	.0	.0	9.5	100.0	202
12015	5.7	11.4	45.1	34.1	3.4	.4	.0	.0	9.7	100.0	264
18021	7.2	9.4	55.2	24.9	3.3	.0	.0	.0	8.4	100.0	181
TOT	59	92	405	269	27	2	0	0	9.2		854
PCT	6.9	10.8	47.4	31.5	3.2	.2	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.6	3.0	3.8		6.4
NE	1.0	.7	3.0	5.6		6.5
E	.6	1.1	3.6	4.7		6.4
SE	.9	.6	1.7	9.9		7.0
S	2.3	1.8	3.5	20.7		6.9
SW	1.3	.4	2.4	6.6		6.6
W	.9	.2	.8	.5		4.3
NW	.2	.2	.7	1.6		6.7
VAP	.0	.0	.0	.0		.0
CALM	2.4	.4	1.7	7.1		6.0
TOT OBS	55	37	109	334	535	6.5
TOT PCT	10.3	6.9	20.4	62.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.7	.0	.4	.3	1.9	2.7	.7	.0	.2	.0	3.3	
NE	1.3	.0	.4	.6	2.1	3.0	1.0	.0	.0	.2	1.7	
E	1.1	.2	.0	.3	1.7	2.7	.5	.5	.0	.0	3.0	
SE	4.2	.3	.7	.5	2.2	2.0	1.2	.1	.0	.0	2.0	
S	7.5	.8	1.4	1.8	4.4	4.9	1.4	.1	.1	.1	5.7	
SW	4.5	.0	.2	.0	.7	1.3	.7	.0	.4	.2	2.5	
W	.1	.1	.2	.0	.2	.5	.0	.0	.2	.0	1.1	
NW	1.0	.0	.2	.4	.5	.2	.0	.0	.0	.0	.4	
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.0	.0	.2	.4	1.5	2.4	.6	.0	.0	.2	3.4	
TOT OBS	130	8	18	22	81	106	34	4	5	4	123	535
TOT PCT	24.3	1.5	3.4	4.1	15.1	19.8	6.4	.7	.9	.7	23.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	.9	1.3	1.7	1.7	1.7	1.7	1.7	1.7
>5000	1.3	2.0	2.6	2.6	2.6	2.6	2.6	2.6
>3500	6.4	8.1	8.8	8.8	9.0	9.0	9.0	9.0
>2000	17.4	26.1	28.3	28.4	28.8	28.8	28.8	28.8
>1000	22.6	37.1	41.7	42.8	43.7	43.7	43.9	43.9
>600	23.7	39.8	45.3	46.8	47.7	47.9	48.1	48.1
>300	24.2	41.7	47.9	49.9	51.0	51.2	51.4	51.4
>150	24.2	42.0	48.6	50.6	51.9	52.3	52.5	52.7
>0	24.2	42.6	51.4	54.7	58.0	64.4	74.7	76.7
TOTAL	132	232	280	298	316	351	407	418

TOTAL NUMBER OF OBS: 545

PCT FREQ NH <5/8: 23.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	6.7	3.7	7.7	3.2	1.9	3.9	7.4	7.7	35.0	22.7	568

JULY

PERIOD: (PRIMARY) 1937-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.1	.1	.1	.3	.1	.1	.1	.0	.0	.9	
	NO PCP	1.4	.8	.8	2.2	7.0	3.5	.1	.4	.0	2.3	18.6	
	TOT %	1.6	.9	.9	2.4	7.3	3.6	.1	.4	.0	2.3	19.4	
1/2<1	PCP	.0	.1	.3	.3	.5	.1	.0	.0	.0	.0	1.0	
	NO PCP	.3	.2	.1	.1	1.4	.3	.0	.3	.0	.4	3.0	
	TOT %	.3	.3	.4	.3	1.6	.4	.0	.3	.0	.4	4.0	
1<2	PCP	.1	.1	.2	.3	.7	.2	.1	.0	.0	.0	1.7	
	NO PCP	.1	.2	.2	.1	1.5	.5	.0	.0	.0	.1	2.7	
	TOT %	.2	.2	.4	.5	2.2	.6	.1	.0	.0	.1	4.3	
2<5	PCP	.3	.9	.6	.8	1.0	.1	.0	.1	.0	.1	4.0	
	NO PCP	.6	.4	.4	.8	1.6	.4	.0	.2	.0	.2	4.6	
	TOT %	1.0	1.2	1.0	1.5	2.6	.5	.0	.3	.0	.3	8.6	
5<10	PCP	.0	.5	.3	1.2	1.1	.1	.0	.0	.0	.1	3.2	
	NO PCP	1.9	2.2	2.2	1.8	5.6	2.4	.6	1.1	.0	1.7	19.6	
	TOT %	1.9	2.7	2.5	3.0	6.7	2.5	.6	1.1	.0	1.8	22.8	
10+	PCP	.0	.2	.1	.3	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	6.1	4.6	5.4	4.8	8.4	4.3	1.4	.9	.0	4.1	40.1	
	TOT %	6.1	4.8	5.6	5.1	8.6	4.3	1.4	.9	.0	4.1	40.9	
TOT OBS													900
TOT PCT													
		11.1	10.0	10.8	12.7	29.0	11.9	2.3	3.1	.0	9.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	.0	.4	.4	1.0	.3	.0	.1	.0	1.5	4.4	
	4-10	1.0	1.0	.2	1.2	3.9	.9	.1	.1	.0	.0	8.4	
	11-21	.2	.1	.1	.6	2.3	1.9	.0	.1	.0	.0	5.4	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	1.9	1.1	.7	2.4	7.3	3.1	.1	.3	.0	1.5	18.4	
1/2<1	0-3	.0	.0	.1	.0	.1	.0	.0	.1	.0	.4	.7	
	4-10	.3	.3	.3	.0	.5	.1	.1	.2	.0	.0	1.7	
	11-21	.0	.1	.1	.2	.8	.2	.0	.0	.0	.0	1.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.4	.5	.2	1.4	.3	.1	.3	.0	.4	3.9	
1<2	0-3	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.4	
	4-10	.1	.0	.0	.4	1.7	.7	.0	.1	.0	.0	3.0	
	11-21	.1	.1	.2	.0	.6	.4	.1	.0	.0	.0	1.5	
	22+	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.1	.3	.5	2.8	1.1	.1	.1	.0	.0	5.2	
2<5	0-3	.1	.2	.2	.0	.7	.1	.0	.0	.0	.0	1.2	
	4-10	.6	.5	.4	1.1	1.4	.9	.0	.3	.0	.0	5.2	
	11-21	.3	.5	.6	.5	1.9	.2	.0	.1	.0	.0	4.0	
	22+	.2	.4	.1	.0	.1	.0	.0	.0	.0	.0	.9	
	TOT %	1.2	1.5	1.4	1.6	4.1	1.1	.0	.4	.0	.0	11.3	
5<10	0-3	.4	.0	.1	.6	.3	.2	.1	.4	.0	1.6	3.7	
	4-10	.8	1.4	1.2	1.0	3.6	1.3	.5	.6	.0	.0	10.5	
	11-21	.2	.7	1.0	1.1	3.0	1.1	.0	.0	.0	.0	7.1	
	22+	.2	.1	.4	.1	.1	.0	.0	.0	.0	.0	1.0	
	TOT %	1.6	2.2	2.7	2.9	6.9	2.6	.7	1.0	.0	1.6	22.2	
10+	0-3	1.0	.2	.3	.2	1.0	.4	.2	.2	.0	3.4	6.9	
	4-10	3.0	2.5	2.4	2.5	4.8	2.4	.7	.5	.0	.0	19.0	
	11-21	1.6	1.9	2.4	1.4	3.0	1.3	.2	.1	.0	.0	11.9	
	22+	.1	.1	.4	.1	.2	.2	.0	.0	.0	.0	1.1	
	TOT %	5.7	4.6	5.5	4.3	9.1	4.3	1.2	.9	.0	3.4	39.0	
TOT OBS													821
TOT PCT													
		11.0	9.9	11.1	12.0	31.6	12.4	2.1	3.0	.0	6.8	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

JULY

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	20.3	.6	5.1	5.1	15.8	17.1	7.0	.6	1.3	1.3	74.1	25.9	158
06009	23.0	1.4	2.9	3.6	12.9	22.3	6.5	.7	1.4	.0	74.8	25.2	139
12015	21.9	1.2	3.0	4.7	13.0	23.1	5.9	1.8	.6	1.2	76.3	23.7	169
18021	35.2	3.4	1.1	2.3	20.5	13.6	5.7	.0	.0	.0	81.8	18.2	88
TOT	132	8	18	23	83	109	35	5	5	4	422	132	594
PCT	23.8	1.4	3.2	4.2	15.0	19.7	6.3	.9	.9	.7	76.2	23.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	17.3	3.0	7.4	10.4	20.8	41.1	231
06009	19.1	3.8	5.1	11.0	21.2	39.8	236
12015	17.5	4.2	3.6	12.0	21.8	40.9	308
18021	22.4	7.1	4.6	10.2	24.0	31.6	196
TOT	183	43	49	107	212	377	971
PCT	18.8	4.4	5.0	11.0	21.8	38.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	20.5	28.2	37.8	39.7	22.4	156
06009	24.1	28.5	40.1	37.2	22.6	137
12015	22.3	28.3	41.0	36.7	22.3	166
18021	34.9	43.0	50.0	32.6	17.4	86
TOT	132	167	225	202	118	545
PCT	24.2	30.6	41.3	37.1	21.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	1.9	.0	.0	.0	.0	.0	1	1.9
70/74	.0	.0	.0	1.9	.0	.0	.0	.0	1	1.9
65/69	.0	.0	.0	.0	.0	.0	1.9	.0	1	1.9
60/64	.0	.0	.0	.0	.0	.0	1.9	17.3	10	19.2
55/59	.0	.0	.0	.0	.0	3.8	11.5	36.5	27	51.9
50/54	.0	.0	.0	.0	.0	9.6	.0	13.5	12	23.1
TOTAL	0	0	1	1	0	7	8	35	52	100.0
PCT	.0	.0	1.9	1.9	.0	13.5	15.4	67.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
65/69	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0
60/64	.0	.0	.0	7.7	9.1	2.4	.0	.0	.0	.0
55/59	14.9	.5	10.1	4.8	13.0	.5	.0	.5	.0	7.7
50/54	7.7	2.4	5.3	.0	3.8	1.9	.0	1.9	.0	.0
TOTAL	22.6	2.9	15.4	12.5	29.8	4.8	.0	2.4	.0	9.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	75	67	58	52	49	37	58.5	238
06009	83	76	70	60	50	36	32	59.6	232
12015	77	70	66	57	50	45	43	57.5	309
18021	73	67	64	56	50	43	39	56.6	198
TOT	84	73	67	57	50	45	32	58.1	977

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.7	.0	13.3	20.0	60.0	88	15
06009	.0	.0	.0	16.7	8.3	75.0	89	12
12015	.0	.0	.0	25.0	16.7	58.3	58	12
18021	.0	7.7	.0	.0	15.4	76.9	91	13
TOT	0	2	0	7	8	35	89	52

JULY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0018 TATAR STRAIT S
47.9N 141.2EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	% FOG	WD FOG
>30	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.2	5	.1	.5
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	4	.1	.4
20/22	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.1	.0	.0	4	.0	.5
17/19	.0	.0	.0	.0	.2	.3	.0	.0	.1	.0	.0	.1	.0	8	.1	.8
14/16	.0	.0	.0	.0	.1	.1	.0	.1	.0	.2	.0	.0	.0	5	.1	.5
11/13	.0	.0	.0	.0	.0	.3	.2	.4	.7	.2	.4	.0	.0	20	.9	1.4
9/10	.0	.0	.0	.0	.0	.3	.9	.9	1.4	.2	.0	.1	.0	35	1.1	3.1
7/8	.0	.0	.0	.0	.1	.6	.7	1.3	.6	.0	.0	.0	.0	28	1.1	2.3
6	.0	.0	.0	.0	.2	.7	.2	.5	.1	.1	.0	.0	.0	16	.6	1.3
5	.0	.0	.0	.0	.1	1.5	1.4	3.4	1.4	.0	.1	.0	.0	68	2.7	5.3
4	.0	.0	.0	.0	.2	2.0	2.8	4.3	.7	.2	.0	.0	.0	87	3.1	7.2
3	.0	.0	.0	.0	.0	.8	1.8	1.4	.0	.2	.0	.0	.0	36	1.1	3.2
2	.0	.0	.0	.2	1.1	4.3	3.3	5.7	.5	.1	.0	.0	.0	128	5.6	9.6
1	.0	.0	.0	.4	.8	1.3	2.8	.5	.1	.0	.0	.0	.0	50	1.4	4.5
0	.0	.0	.1	.5	3.2	6.3	4.4	3.4	.4	.0	.0	.0	.0	154	5.8	12.5
-1	.0	.0	.0	.0	.4	2.0	1.5	.6	.0	.0	.0	.0	.0	38	.9	3.6
-2	.0	.0	.0	.1	1.9	2.8	2.7	.4	.0	.0	.0	.0	.0	87	1.8	6.2
-3	.0	.0	.0	.0	.6	.6	.8	.2	.1	.0	.0	.0	.0	20	.5	1.9
-4	.0	.0	.0	.2	1.1	.6	1.2	.2	.0	.0	.0	.0	.0	28	.7	2.6
-5	.0	.0	.0	.0	.2	.8	.6	.0	.0	.0	.0	.0	.0	14	.4	1.3
-6	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
-7/-8	.0	.0	.0	.1	.1	.2	.2	.1	.0	.0	.0	.0	.0	7	.1	.7
-9/-10	.1	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	6	.4	.4
-11/-13	.0	.0	.0	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	6	.0	.7
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-17/-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	2	2	18	95	225	224	201	52	13	6	2	2	843	24.2	60.1
PCT	.1	.2	.2	2.1	11.3	26.7	26.6	23.8	6.2	1.5	.7	.2	.2	100.0	28.7	71.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.7	<1	.4	1.5	.0	.0	.0	.0	1.8
1-2	.0	2.9	.3	.0	.0	.0	3.4	1-2	.0	2.0	1.2	.0	.0	.0	3.2
3-4	.0	1.4	2.0	.0	.0	.0	3.4	3-4	.0	1.0	1.9	.3	.0	.0	3.2
5-6	.0	.0	.5	.3	.0	.0	.8	5-6	.0	.0	1.3	.5	.0	.0	1.8
7	.0	.0	.5	.0	.0	.0	.5	7	.0	.3	.1	.3	.3	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.8	3.6	.3	.0	.0	9.8	TOT PCT	.4	4.7	4.7	1.1	.3	.0	11.3

HGT	1-3	4-10	11-21	E 22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7	<1	.3	2.1	.0	.0	.0	.0	2.4
1-2	.0	1.8	1.9	.0	.0	.0	3.7	1-2	.3	3.3	1.9	.0	.0	.0	5.5
3-4	.0	.5	3.0	.0	.0	.0	3.5	3-4	.3	.6	1.9	.5	.0	.0	3.3
5-6	.0	.0	.5	1.1	.0	.0	1.5	5-6	.0	.1	.7	.0	.0	.0	.7
7	.0	.0	.5	.0	.0	.0	.5	7	.0	.3	.3	.3	.0	.0	.8
8-9	.0	.0	.3	.3	.0	.0	.5	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	12	.0	.3	.0	.0	.0	.0	.3
13-16	.0	.0	.3	.0	.0	.0	.3	13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.8	6.3	1.8	.0	.0	11.1	TOT PCT	.9	6.6	4.8	.8	.0	.0	13.1

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	4.2	.0	.0	.0	.0	4.9	.0	2.2	.3	.0	.0	.0	2.5
1-2	.3	5.5	7.7	.0	.0	.0	13.5	.3	2.1	1.5	.0	.0	.0	3.9
3-4	.0	1.1	5.1	.5	.0	.0	6.7	.0	.4	2.0	.1	.0	.0	2.4
5-6	.0	.5	2.6	.0	.0	.0	3.0	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	11.6	15.8	.5	.0	.0	28.9	.3	4.7	6.4	.1	.0	.0	11.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.7	.3	.0	.0	.0	1.1	.6	.5	.0	.0	.0	.0	1.1	
1-2	.0	.7	.3	.0	.0	.0	1.0	.0	.1	.3	.0	.0	.0	.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.4	.8	.0	.0	.0	2.4	.6	.9	.8	.0	.0	.0	2.2	90.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	12.4	13.2	.5	.0	.0	.0	26.1	
1-2	.8	18.7	15.3	.0	.0	.0	34.7	
3-4	.3	5.3	15.8	1.3	.0	.0	22.6	
5-6	.0	.5	8.7	1.8	.0	.0	11.1	
7	.0	.5	1.8	.5	.3	.0	3.2	
8-9	.0	.3	.3	.3	.0	.0	.8	
10-11	.0	.0	.3	.3	.0	.0	.5	
12	.0	.3	.0	.3	.0	.0	.5	
13-16	.0	.0	.5	.0	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.4	38.7	43.2	4.5	.3	.0	100.0	380

PERIOD: (OVER-ALL) 1956-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	18.5	15.2	7.4	.8	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	3
6-7	.0	1.5	1.9	3.6	.6	.4	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	5
8-9	.0	.8	.4	1.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
10-11	.0	2.9	.2	.8	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
12-13	.0	.0	1.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.8	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	13.2	8.4	7.4	4.2	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	2
TOTAL	87	168	137	96	18	7	3	5	4	0	0	0	0	0	0	0	0	0	0	525	3
PCT	16.6	32.0	26.1	18.3	3.4	1.3	.6	1.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AUGUST

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	2.9	.0	4.4	.0	.0	.0	.0	7.3	3.7	.0	3.7	.0	1.7	.0	83.6		
NE	11.9	.0	4.9	.0	.0	.0	.0	16.8	4.5	.0	3.0	.0	.4	1.3	73.9		
E	13.7	.0	6.9	.0	.0	.0	.0	20.6	.0	.0	2.3	.0	.0	.0	77.1		
SE	7.1	.0	2.7	.0	.0	.0	.0	9.7	2.4	.0	15.9	1.2	.0	.0	70.8		
S	4.7	.0	2.5	.0	.0	.0	.0	7.2	.5	.0	26.0	.0	.5	.0	65.9		
SW	1.0	.0	2.1	.0	.0	.0	.0	2.9	.4	.0	24.3	.0	1.3	.0	70.9		
W	2.8	.0	1.7	.0	.0	.0	.0	2.8	5.5	.0	5.5	.0	.0	.0	86.2		
NW	7.2	.0	2.6	.0	.0	.0	.0	9.7	2.6	.0	11.3	.0	.0	.0	76.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.7	.0	.0	.0	.0	.0	.0	5.7	2.9	.0	14.3	.0	.0	.0	77.1		
TOT PCT	5.3	.0	3.0	.0	.0	.0	.0	8.2	2.0	.0	15.6	.1	.7	.1	73.3		
TOT OBS:	769																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
0000	4.9	.0	3.9	.0	.0	.0	.0	8.7	4.4	.0	11.7	.0	.0	.0	75.2		
0600	4.5	.0	2.5	.0	.0	.0	.0	6.6	1.0	.0	16.7	.0	1.0	.0	74.7		
1200	6.0	.0	4.3	.0	.0	.0	.0	10.2	2.1	.0	16.2	.4	1.3	.4	69.4		
1800	5.2	.0	2.0	.0	.0	.0	.0	7.2	.7	.0	18.3	.0	.0	.0	73.9		
TOT PCT	5.2	.0	3.3	.0	.0	.0	.0	8.3	2.1	.0	15.5	.1	.6	.1	73.1		
TOT OBS:	792																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	5.9	3.6	1.6	.2	.0		12.5	11.7		14.7	14.6	17.6	12.5	12.5	8.8	9.0	8.4
NE	1.0	4.1	3.2	.4	.1	.0		8.8	10.6		9.8	9.1	7.6	6.0	11.3	5.1	12.9	10.1
E	.7	3.0	1.9	.4	.0	.0		6.0	9.9		5.8	3.0	6.9	1.1	.8	7.9	3.9	9.4
SE	1.4	6.9	2.0	.1	.0	.0		10.4	8.1		6.3	9.1	6.6	9.2	9.3	17.1	13.3	13.6
S	2.6	15.0	11.0	.8	.0	.0		29.4	10.3		21.7	33.8	31.9	30.4	30.4	29.6	26.6	31.8
SW	1.8	10.0	5.9	.2	.0	.0		17.9	9.4		13.3	23.9	14.2	27.7	8.8	23.6	17.6	16.9
W	.5	2.8	1.9	.1	.0	.0		5.3	9.3		10.5	4.3	6.9	6.0	1.7	3.2	5.1	4.5
NW	1.1	2.5	1.6	.1	.0	.0		5.2	8.4		7.5	1.8	2.5	6.0	6.4	3.7	10.2	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0		10.3	1.2	5.9	1.1	10.8	.9	1.6	.0
TOT OBS	108	368	228	28	2	0	734		9.5		107	82	102	92	102	108	64	77
TOT PCT	14.7	50.1	31.1	3.8	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	4.4	4.9	2.8	.4	.1			12.5	11.7		14.7	15.2	10.6	8.7	
NE	3.2	3.6	1.7	.2	.1			8.8	10.6		9.8	6.8	8.1	11.3	
E	2.1	3.2	.6	.1	.0			6.0	9.9		4.6	4.1	8.3	6.9	
SE	4.4	5.6	.5	.0	.0			10.4	8.1		7.5	7.9	13.3	13.5	
S	8.3	16.5	4.7	.0	.0			29.4	10.3		27.0	31.2	30.0	29.4	
SW	5.9	10.3	1.7	.0	.0			17.9	9.4		17.5	20.6	16.4	17.2	
W	2.5	2.4	.5	.0	.0			5.3	9.3		7.8	6.4	2.5	4.8	
NW	2.7	2.0	.6	.0	.0			5.2	8.4		5.0	4.1	5.0	7.4	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	4.4							4.4	.0		6.2	3.6	5.7	.7	
TOT OBS	277	355	96	5	1	734			9.5		189	194	210	141	
TOT PCT	37.7	48.4	13.1	.7	.1			100.0			100.0	100.0	100.0	100.0	

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND				SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47						
0000	6.3	7.4	54.5	24.3	6.9	.5	.0	9.3	100.0	189		
0600	3.6	10.8	43.3	37.1	4.6	.5	.0	10.5	100.0	190		
1215	5.7	10.0	51.4	31.0	1.9	.0	.0	9.0	100.0	214		
1821	7	14.2	51.8	31.9	1.4	.0	.0	9.1	100.0	141		
TOT	32	76	368	228	20	2	.0	9.5		784		
PCT	4.4	10.4	50.1	31.1	3.8	.3	.0	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	5/8 HGT	TOTAL QBS
N	2.9	1.1	4.7	5.5		5.6	.9	.7	.0	.0	1.3	3.9	1.6	.2	.0	.5		5.4	
NE	.9	1.0	3.5	4.5		6.3	1.0	.0	.2	.5	1.7	2.7	1.0	.0	.0	.0		2.6	
E	.4	.9	1.6	2.9		6.3	.2	.0	.0	.5	.8	2.1	.0	.0	.2	.0		2.0	
SE	1.7	.5	2.4	4.6		5.9	.9	.0	.0	.5	.6	3.2	.0	.1	.3	.6		3.0	
S	3.6	2.3	9.0	11.8		6.1	4.2	.9	.7	.9	3.9	4.9	1.8	.6	.0	1.5		7.3	
SW	2.9	1.6	4.6	4.8		5.5	1.5	.4	.0	1.0	1.4	3.5	.1	.1	.3	.1		5.6	
W	2.4	.7	2.3	1.3		4.5	.2	.0	.0	.0	.7	1.3	.4	.0	.2	.0		3.7	
NW	1.5	.5	2.2	2.6		5.5	.4	.0	.2	.7	.7	1.5	.6	.0	.0	.0		2.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
CALM	2.0	1.0	1.5	2.7		5.0	.5	.0	.0	.5	.5	2.2	.0	.0	.0	.0		3.4	
TOT QBS	75	39	130	164	410	5.7	40	6	5	19	48	104	23	4	4	11		146	410
TOT PCT	18.3	9.5	31.7	40.5	100.0		9.8	1.5	1.2	4.6	11.7	25.4	5.6	1.0	1.0	2.7		35.6	100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

	CEILING (FEET)	VSBY (NM)							
		≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >30YD	≥ OR >0
■ OR	≥5000	2.6	3.3	3.3	3.3	3.6	3.6	3.6	3.6
■ OR	≥5000	3.3	4.3	4.3	4.3	4.5	4.5	4.5	4.5
■ OR	≥5000	7.8	10.0	10.0	10.0	10.2	10.2	10.2	10.2
■ OR	≥2000	24.5	32.3	34.0	34.4	34.7	34.9	34.9	35.2
■ OR	≥1000	31.6	42.5	45.6	46.1	46.3	46.6	46.6	46.8
■ OR	≥600	33.0	45.8	49.9	50.8	51.1	51.3	51.5	51.8
■ OR	≥300	33.7	46.6	50.8	51.8	52.3	52.5	52.7	53.0
■ OR	≥150	34.7	47.5	52.0	53.2	53.7	53.9	54.2	54.4
■ OR	> 0	34.7	48.9	54.9	56.1	56.8	56.9	56.1	64.6
	TOTAL	146	206	231	239	239	248	270	272

PCT FREQ NH <5/01 35.4

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.4	4.6	9.6	5.2	5.0	7.5	8.0	11.8	27.1	9.8	439

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.2	.3	.1	1.0	3.7	2.7	.2	.2	.0	.3	8.7	
	TOT %	.2	.4	.1	1.0	3.9	2.8	.2	.2	.0	.3	9.1	
1/2<1	PCP	.1	.0	.0	.0	.1	.0	.0	.3	.0	.0	.5	
	NO PCP	.0	.0	.0	.2	.6	.7	.1	.1	.0	.0	1.7	
	TOT %	.1	.0	.0	.2	.8	.7	.1	.4	.0	.0	2.2	
1<2	PCP	.0	.1	.2	.0	.4	.0	.0	.1	.0	.0	.8	
	NO PCP	.1	.0	.0	.6	.5	.1	.0	.0	.0	.1	1.5	
	TOT %	.1	.1	.2	.6	.9	.1	.0	.1	.0	.1	2.2	
2<5	PCP	.6	.7	.4	.4	.9	.0	.1	.1	.0	.0	3.2	
	NO PCP	.6	.5	.1	.1	1.4	.6	.0	.3	.0	.3	3.8	
	TOT %	1.3	1.2	.5	.6	2.2	.6	.1	.3	.0	.3	7.0	
5<10	PCP	.2	.3	.5	.4	.4	.3	.1	.2	.0	.3	2.6	
	NO PCP	2.1	1.6	1.1	2.4	4.7	2.7	.7	1.0	.0	.4	16.8	
	TOT %	2.3	1.9	1.7	2.8	5.1	3.0	.8	1.1	.0	.7	19.4	
10+	PCP	.0	.3	.1	.3	.1	.1	.0	.0	.0	.0	.8	
	NO PCP	9.4	5.0	3.2	5.7	14.3	9.2	4.8	4.1	.0	3.3	59.2	
	TOT %	9.4	5.3	3.3	6.0	14.4	9.3	4.8	4.1	.0	3.3	60.0	
TOT OBS		757											
TOT PCT		13.5	8.9	5.8	11.2	27.2	16.5	6.0	6.3	.0	4.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.6	
	4-10	.1	.1	.3	.8	1.7	1.5	.1	.0	.0		4.7	
	11-21	.0	.1	.0	.4	2.2	1.1	.0	.1	.0		4.0	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0		.3	
	TOT %	.1	.3	.3	1.2	4.2	2.9	.1	.2	.0	.3	9.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.0	.1	.6	.3	.1	.1	.0		1.3	
	11-21	.1	.0	.0	.0	.4	.4	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.1	1.0	.7	.1	.3	.0	.0	2.4	
1<2	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	4-10	.1	.1	.1	.7	.6	.0	.0	.1	.0		1.7	
	11-21	.1	.1	.1	.1	.6	.3	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.2	.2	.8	1.5	.3	.0	.1	.0	.0	3.4	
2<5	0-3	.3	.0	.0	.0	.1	.4	.0	.1	.0	.1	1.0	
	4-10	.3	.6	.3	.9	2.1	1.1	.1	.2	.0		5.6	
	11-21	.8	.4	.4	.0	1.1	.4	.1	.0	.0		3.1	
	22+	.3	.1	.0	.0	.1	.0	.0	.0	.0		.6	
	TOT %	1.6	1.1	.6	.9	3.3	1.9	.1	.4	.0	.1	10.3	
5<10	0-3	.1	.3	.3	.4	.3	.3	.1	.1	.0	.7	2.6	
	4-10	.5	.9	1.0	1.0	2.4	1.6	.1	.4	.0		7.9	
	11-21	.6	.6	.3	.6	2.3	1.3	.5	.4	.0		6.6	
	22+	.5	.2	.1	.0	.0	.0	.0	.0	.0		.9	
	TOT %	1.8	2.0	1.6	2.1	5.0	3.2	.6	.9	.0	.7	17.9	
10+	0-3	.7	.6	.5	1.1	1.7	1.1	.5	.7	.0	3.1	10.2	
	4-10	5.0	2.3	1.3	3.6	7.2	5.5	2.3	1.7	.0		29.0	
	11-21	2.0	1.9	1.2	.9	4.1	2.3	1.4	1.0	.0		14.9	
	22+	1.0	.1	.3	.0	.5	.1	.1	.1	.0		2.3	
	TOT %	8.7	5.0	3.2	5.6	13.6	9.0	4.6	3.5	.0	3.1	56.4	
TOT OBS		699											
TOT PCT		12.7	8.6	6.0	10.7	28.7	18.1	5.6	5.4	.0	4.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

TABLE 10

AREA 0018 TATAR STRAIT S
48.0N 141.2EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.2	.8	1.6	7.0	13.2	20.2	7.0	.0	.0	3.1	58.9	41.1	129
06009	10.6	1.8	.0	3.5	9.7	32.7	5.3	1.8	.0	1.8	67.3	32.7	113
12015	13.8	1.6	1.6	4.1	12.2	19.5	4.1	1.6	2.4	3.3	64.2	35.8	123
18021	9.0	1.5	1.5	4.5	11.9	28.4	6.0	.0	1.5	1.5	65.7	34.3	67
TOT	43	6	5	21	51	106	24	4	4	11	275	157	432
PCT	10.0	1.4	1.2	4.9	11.8	24.5	5.6	.9	.9	2.5	63.7	36.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.1	2.4	3.3	6.6	18.5	62.1	211
06009	9.3	2.4	3.9	6.8	15.6	62.0	205
12015	9.6	1.6	2.8	17.2	20.4	48.4	250
18021	10.8	3.8	3.8	7.0	18.4	56.3	158
TOT	75	20	28	82	151	468	824
PCT	9.1	2.4	3.4	10.0	18.3	56.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.3	9.4	21.3	40.9	37.8	127
06009	10.8	12.6	18.9	49.5	31.5	111
12015	15.3	19.5	32.2	36.4	31.4	118
18021	9.2	13.8	21.5	44.6	33.8	65
TOT	44	58	100	179	142	421
PCT	10.5	13.8	23.8	42.5	33.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	4.3	1	4.3
65/69	.0	.0	4.3	.0	.0	4.3	13.0	8.7	7	30.4
60/64	.0	.0	.0	.0	.0	17.4	.0	17.4	8	34.8
55/59	.0	.0	.0	.0	.0	8.7	8.7	.0	4	17.4
50/54	.0	.0	.0	.0	.0	4.3	4.3	4.3	3	13.0
TOTAL	0	0	1	0	0	8	6	8	23	100.0
PCT	.0	.0	4.3	.0	.0	34.8	26.1	34.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0
65/69	3.3	1.1	.0	.0	16.3	9.8	.0	.0	.0	.0
60/64	.0	4.3	.0	1.1	14.1	6.5	8.7	.0	.0	.0
55/59	4.3	.0	.0	4.3	.0	.0	4.3	4.3	.0	.0
50/54	3.3	1.1	.0	4.3	.0	.0	4.3	.0	.0	.0
TOTAL	10.9	6.5	.0	9.8	30.4	16.3	17.4	8.7	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	77	73	64	59	50	45	64.5	216
06009	82	78	73	65	57	43	39	64.8	206
12015	84	79	70	63	55	51	46	62.6	258
18021	72	70	68	63	54	41	41	61.4	161
TOT	84	77	72	64	55	46	39	63.4	841

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	14.3	.0	14.3	42.9	28.6	78	7		
06009	.0	.0	.0	50.0	25.0	25.0	80	8		
12015	.0	.0	.0	33.3	.0	66.7	91	6		
18021	.0	.0	.0	50.0	50.0	.0	79	2		
TOT	0	1	0	8	6	8	82	23		

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	3	.0	.4
26/30	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.1	.1
14/16	.0	.0	.0	.0	.1	.1	.0	.3	.1	.3	.0	7	.0	1.0
11/13	.0	.0	.0	.1	.0	.6	.6	.1	.4	.3	.1	16	.3	2.0
9/10	.0	.0	.0	.1	.3	.3	.1	.3	.3	.3	.0	13	.1	1.6
7/8	.0	.0	.1	.0	.4	.6	1.0	1.4	1.0	.0	.0	32	1.1	3.4
6	.0	.0	.1	.0	.0	.3	.4	.6	.1	.0	.0	12	.3	1.4
5	.0	.0	.1	.3	.3	1.4	3.1	1.1	.3	.0	.0	47	.7	6.0
4	.0	.0	.0	.1	.3	4.4	4.6	1.9	.1	.0	.0	80	2.0	9.4
3	.0	.0	.0	.0	.1	1.6	1.3	.4	.1	.0	.0	25	.1	3.4
2	.0	.3	.0	.3	.7	7.3	6.3	1.6	.1	.0	.0	116	4.6	12.3
1	.0	.0	.0	.0	.7	3.1	.9	.4	.0	.0	.0	36	1.1	4.0
0	.3	.0	.0	.9	4.0	10.1	3.1	.4	.0	.0	.0	132	2.8	16.0
-1	.0	.0	.0	.1	1.4	1.9	.4	.0	.0	.0	.0	27	.4	3.4
-2	.0	.0	.0	.7	3.0	3.8	1.4	.0	.0	.0	.0	63	.7	8.3
-3	.0	.0	.0	.1	.4	.1	.6	.0	.0	.0	.0	9	.1	1.1
-4	.0	.0	.0	.7	2.6	2.0	.1	.0	.0	.0	.0	28	.4	5.0
-5	.0	.0	.0	.3	1.0	.3	.1	.0	.0	.0	.0	12	.0	1.7
-6	.0	.0	.1	.1	.7	.1	.0	.0	.0	.0	.0	8	.1	1.0
-7/-8	.0	.0	.0	.3	.6	.3	.0	.0	.0	.0	.0	8	.0	1.1
-9/-10	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	6	.0	.9
-11/-13	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	5	.3	.4
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
-20/-22	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	3	10	33	120	271	169	64	22	7	1	702	110	592
PCT	.3	.4	1.5	4.7	17.1	38.6	24.1	9.1	3.1	1.0	.1	100.0	15.7	84.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N										NE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.0	1.8	.0	.0	.0	.0	1.8			.0	1.3	.0	.0	.0	.0	1.3			
1-2	.0	2.8	1.8	.0	.0	.0	4.6			.0	1.2	1.9	.0	.0	.0	3.1			
3-4	.0	1.6	2.6	.6	.0	.0	4.7			.0	.7	1.9	.4	.0	.0	3.1			
5-6	.0	.2	.2	1.6	.0	.0	2.1			.0	.0	1.4	.2	.0	.0	1.6			
7	.0	.0	.7	.0	.3	.0	1.0			.0	.0	.0	.0	.0	.0	.0			
8-9	.0	.0	.0	.7	.0	.0	.7			.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.2	.0	.0	.0	.2			.0	.0	.3	.0	.0	.0	.3			
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.3	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	6.4	5.5	2.8	.3	.0	15.1			.0	3.2	5.5	.6	.0	.0	9.3			

E										SE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.0	.6	.0	.0	.0	.0	.6			.4	.8	.0	.0	.0	.0	1.2			
1-2	.0	1.2	.9	.0	.0	.0	2.1			.5	3.6	1.2	.0	.0	.0	5.3			
3-4	.0	.6	1.2	.0	.0	.0	1.7			.0	1.1	.8	.0	.0	.0	1.9			
5-6	.0	.0	1.0	.2	.0	.0	1.2			.0	.0	.0	.0	.0	.0	.0			
7	.0	.0	.3	.0	.0	.0	.3			.0	.1	.0	.0	.0	.0	.1			
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.3	.0	.0	.3			.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.4	.0	.0	.0	.0	.4			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	2.3	3.4	.6	.0	.0	6.3			.9	6.0	2.0	.0	.0	.0	8.9			

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	4.7	.0	.0	.0	.0	5.0	.0	1.9	.0	.0	.0	.0	1.9
1-2	.8	5.9	3.9	.0	.0	.0	10.6	.0	3.5	2.6	.0	.0	.0	6.0
3-4	.0	2.2	3.3	.8	.0	.0	6.4	.0	1.1	1.9	.5	.0	.0	3.5
5-6	.0	.0	3.8	.3	.0	.0	4.1	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.2	.7	.3	.0	.0	1.2	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	13.4	12.6	1.5	.0	.0	28.5	.0	6.4	6.4	.5	.0	.0	13.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	1.0	.8	.0	.0	.0	.0	1.8	
1-2	.0	.2	.3	.0	.0	.0	.6	.0	.4	1.3	.0	.0	.0	1.7	
3-4	.0	.6	.8	.3	.0	.0	1.7	.0	.1	.7	.0	.0	.0	.8	
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.1	.3	.0	.0	.0	.4	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.4	2.6	.3	.0	.0	5.4	1.0	1.4	2.8	.3	.0	.0	5.5	92.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.2	13.5	.0	.0	.0	.0	22.8	
1-2	1.3	18.8	13.9	.0	.0	.0	34.0	
3-4	.0	7.9	13.2	2.6	.0	.0	23.8	
5-6	.0	.3	9.2	2.3	.0	.0	11.9	
7	.0	.3	2.3	.7	.3	.0	3.6	
8-9	.0	.0	1.0	.7	.0	.0	1.7	
10-11	.0	.0	1.0	.3	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.7	.0	.0	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TCT PCT	10.6	41.6	40.9	6.6	.3	.0	100.0	303

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	18.4	15.3	4.5	1.4	1.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	3
6-7	.0	2.1	2.9	4.8	1.7	1.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	5
8-9	.2	.0	1.2	.7	.5	.7	.5	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
10-11	.0	1.2	.7	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
12-13	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDEX	13.4	10.0	7.9	3.1	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	2
TOTAL	61	133	119	58	31	14	3	3	4	0	1	0	0	0	0	0	0	0	0	419	3
PCT	14.6	31.7	28.4	13.8	3.0	3.3	1.2	.7	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.6	.8	2.8	.0	.0	.0	.0	9.5	.8	.4	1.3	.8	1.3	.0	85.8
NE	16.8	.0	8.4	.0	.0	.0	.0	25.3	3.3	.3	.0	.0	1.1	.0	70.1
E	17.6	.0	2.1	.0	.0	.0	.0	19.6	5.3	1.4	.9	.0	.0	.0	72.7
SE	10.9	.0	1.0	.0	.0	.0	.0	11.9	2.4	.3	1.0	.0	.0	.0	84.3
S	3.8	.3	1.2	.0	.0	.0	.0	5.5	1.1	.5	1.5	.0	.6	.0	90.8
SW	3.5	.2	.7	.0	.0	.0	.0	4.4	.0	.4	2.6	.7	.0	.7	91.2
W	5.0	.0	1.4	.0	.0	.0	.0	6.4	.0	.7	.0	.0	.0	.0	92.9
NW	3.1	.0	3.5	.0	.0	.0	.0	6.6	1.6	2.3	1.9	.0	.0	.0	87.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	.0	.0	.0	.0	.0	.0	2.9	.0	.0	2.9	.0	.0	.0	94.3
TOT PCT	8.0	.2	2.3	.0	.0	.0	.0	10.4	1.7	.7	1.3	.2	.4	.1	85.2
TOT OBS:	904														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.9	.0	2.9	.0	.0	.0	.0	9.8	2.0	.0	2.4	.8	.0	.0	84.9
06009	7.5	.0	2.9	.0	.0	.0	.0	10.0	.8	.4	.4	.0	1.3	.0	87.1
12015	9.5	.4	1.6	.0	.0	.0	.0	11.5	1.2	1.6	1.2	.0	.8	.4	83.4
18021	7.6	.3	2.0	.0	.0	.0	.0	10.2	3.0	.3	1.0	.0	.0	.0	85.3
TOT PCT	7.9	.2	2.4	.0	.0	.0	.0	10.4	1.7	.6	1.3	.2	.3	.1	85.1
TOT OBS:	935														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	5.7	5.2	2.1	.4	.1		14.7	13.7		11.9	21.3	14.1	15.6	11.5	18.0	11.5	15.2
NE	1.1	3.7	4.1	.7	.4	.0		10.1	12.7		8.8	10.8	7.6	9.4	7.4	12.3	12.4	14.1
E	.8	4.8	4.4	1.5	.0	.0		11.4	12.6		10.2	7.4	8.0	14.1	12.0	16.7	10.3	13.0
SE	1.0	7.1	3.2	.7	.1	.0		12.2	9.9		9.0	6.2	10.0	18.2	8.7	16.7	16.5	13.6
S	1.1	7.6	8.0	1.8	.2	.0		18.7	12.5		23.0	18.5	20.8	12.0	20.7	16.7	17.6	17.4
SW	1.1	5.8	6.6	1.3	.2	.0		14.9	12.0		17.7	17.9	22.6	12.5	13.5	10.1	11.8	16.8
W	.4	4.1	1.9	.9	.0	.0		7.3	11.2		13.1	5.6	5.1	6.3	11.5	6.1	3.2	4.9
NW	.4	3.0	2.4	1.6	.0	.0		7.4	13.7		7.4	12.3	8.2	5.7	8.7	3.5	9.7	4.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		3.9	.0	3.6	6.3	6.1	.0	7.1	.0
TOT OBS	91	354	304	90	9	1	849		11.9		128	81	138	96	113	114	83	92
TOT PCT	10.7	41.7	39.8	10.6	1.1	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.7	5.9	4.2	.6	.4				14.7	13.7	15.6	14.7	13.4
NE	2.9	4.1	2.6	.4	.1				10.1	12.7	9.6	8.3	9.8
E	3.2	4.6	3.3	.4	.0				11.4	12.6	9.1	10.5	14.3
SE	4.7	5.8	1.3	.4	.0				12.2	9.9	7.9	13.4	12.7
S	4.0	10.0	4.0	.7	.0				18.7	12.5	21.3	17.2	18.7
SW	3.1	8.6	3.0	.2	.0				14.9	12.0	14.7	18.5	11.8
W	1.8	4.0	1.5	.0	.0				7.3	11.2	10.2	5.6	8.8
NW	1.8	3.1	2.1	.4	.0				7.4	13.7	9.3	7.2	6.1
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0
CALM	3.4								3.4	.0	2.4	4.7	3.1
TOT OBS	242	391	186	26	4	849			11.9		209	234	229
TOT PCT	28.5	46.1	21.9	3.1	.5				100.0		100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.4	7.2	41.6	34.4	12.9	1.0	.5	12.5	100.0	209
06009	4.7	5.1	37.6	38.3	12.8	1.3	.0	12.6	100.0	234
12015	3.1	9.6	48.0	31.0	7.9	.4	.0	10.4	100.0	229
18021	3.4	7.3	39.0	40.1	8.5	1.7	.0	12.2	100.0	177
TOT	29	62	354	304	90	9	1	11.9		849
PCT	3.4	7.3	41.7	35.8	10.6	1.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	2.1	4.4	4.6		5.5
NE	1.4	.3	1.9	5.2		6.3
E	1.2	1.3	1.6	5.9		6.3
SE	1.3	.9	3.3	2.8		5.7
S	9.1	2.1	5.7	2.7		3.5
SW	8.6	2.5	5.1	1.0		3.3
W	4.7	.8	2.3	1.6		3.5
NW	2.5	2.0	2.0	1.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	2.3	.8	1.3	.6		3.1
TOT OBS	159	61	131	123	474	4.5
TOT PCT	33.5	12.9	27.6	25.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3000	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	2499	4999	6499	7999			
.4	.0	.2	1.3	2.9	2.5	.9	.0	.0	.2	5.1	
.5	.0	.0	.9	2.6	2.0	.3	.0	.0	.0	2.5	
.0	.0	.2	1.1	2.1	2.1	.8	.2	.4	.2	2.8	
.4	.0	.5	.4	1.2	2.1	.2	.0	.0	.3	3.3	
.6	.2	.3	.2	1.4	2.3	.8	.4	.2	.0	13.2	
.2	.1	.1	.2	1.1	3.1	.1	.1	.5	.0	11.9	
.2	.2	.0	.2	.7	.6	.8	.4	.0	.0	6.3	
.2	.0	.2	.5	.3	.9	1.2	.0	.0	.0	4.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.6	.2	.4	.0	.0	.4	3.4	
12	2	7	23	61	75	26	5	5	5	253	
2.5	.4	1.5	4.9	12.9	15.8	5.5	1.1	1.1	1.1	53.4	474 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.8	2.2	2.2	2.2	2.2	2.2	2.2
>5000	2.2	2.9	3.3	3.3	3.3	3.3	3.3	3.3
>3500	6.1	7.9	8.6	8.6	8.6	8.6	8.6	8.6
>2000	18.1	23.4	24.4	24.4	24.4	24.4	24.4	24.4
>1000	25.5	34.8	37.3	37.3	37.3	37.3	37.3	37.3
>600	26.7	38.5	42.0	42.2	42.2	42.2	42.2	42.2
>300	27.3	39.7	43.4	43.6	43.6	43.6	43.6	43.6
>150	27.7	40.1	43.8	44.0	44.0	44.0	44.0	44.0
>0	27.9	41.3	45.6	45.8	45.8	45.8	46.0	46.4
TOTAL	137	203	224	225	225	225	226	228

TOTAL NUMBER OF OBS: 491

PCT FREQ NM <5/8: 53.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.6	8.0	12.5	9.3	9.8	4.7	8.4	8.6	23.2	2.1	514

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	.3
	TOT %	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	.3
1/2<1	PCP	.1	.1	.1	.2	.2	.2	.0	.1	.0	.0	.9	.9
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.1	.1	.2	.3	.2	.0	.1	.0	.0	1.0	1.0
1<2	PCP	.2	.3	.1	.1	.1	.2	.1	.0	.0	.0	1.0	1.0
	NO PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.3	.3	.2	.1	.1	.2	.1	.0	.0	.0	1.2	1.2
2<5	PCP	.3	.8	1.2	.3	.3	.1	.1	.0	.0	.0	3.2	3.2
	NO PCP	.2	.1	.2	.4	.5	.4	.0	.3	.0	.1	2.2	2.2
	TOT %	.5	.9	1.4	.7	.8	.5	.1	.3	.0	.1	5.4	5.4
5<10	PCP	.6	1.2	.6	.5	.3	.0	.2	.2	.0	.0	3.6	3.6
	NO PCP	2.3	1.4	2.7	1.7	2.7	1.9	1.0	1.0	.0	.2	14.9	14.9
	TOT %	2.9	2.7	3.2	2.2	3.1	1.9	1.1	1.2	.0	.2	18.6	18.6
10+	PCP	.3	.2	.4	.3	.2	.1	.1	.2	.0	.1	2.0	2.0
	NO PCP	10.6	6.0	6.7	7.8	13.6	11.9	6.3	5.2	.0	3.4	71.5	71.5
	TOT %	10.9	6.2	7.1	8.1	13.8	12.0	6.4	5.4	.0	3.5	73.5	73.5
TOT OBS													905
TOT PCT													14.6 10.3 12.0 11.4 16.1 14.9 7.8 7.1 .0 3.9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.5	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.2	.0	.1	.1	.0	.0	.5	.5
	11-21	.1	.0	.0	.2	.2	.2	.1	.0	.0	.0	.7	.7
	22+	.1	.1	.1	.1	.0	.1	.0	.1	.0	.0	.5	.5
	TOT %	.2	.1	.1	.2	.4	.3	.2	.1	.0	.0	1.7	1.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.2	.1	.1	.0	.0	.0	.0	.8	.8
	11-21	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.1	.1	.0	.0	.0	.2	.2	.0	.0	.0	.5	.5
	TOT %	.3	.3	.2	.2	.1	.3	.2	.0	.0	.0	1.7	1.7
2<5	0-3	.1	.1	.0	.1	.1	.1	.0	.0	.0	.1	.7	.7
	4-10	.0	.3	.7	.7	.5	.1	.1	.3	.0	.0	2.6	2.6
	11-21	.6	.6	.8	.3	.7	.4	.0	.1	.0	.0	3.5	3.5
	22+	.3	.0	.2	.1	.1	.1	.1	.2	.0	.0	1.1	1.1
	TOT %	1.0	1.1	1.7	1.2	1.5	.7	.1	.6	.0	.1	7.9	7.9
5<10	0-3	.1	.2	.1	.0	.3	.3	.3	.0	.0	.2	1.7	1.7
	4-10	1.5	1.0	1.1	1.0	.8	1.1	.5	.6	.0	.0	7.6	7.6
	11-21	.5	1.1	1.3	1.1	1.3	.5	.0	.2	.0	.0	6.0	6.0
	22+	.6	.5	.5	.1	.6	.1	.2	.5	.0	.0	3.0	3.0
	TOT %	2.8	2.8	3.0	2.3	3.0	2.0	1.0	1.2	.0	.2	18.2	18.2
10+	0-3	.8	.8	.7	.9	.7	.6	.1	.4	.0	3.1	8.2	8.2
	4-10	4.1	2.4	3.0	5.2	5.9	4.4	3.5	2.0	.0	.0	30.5	30.5
	11-21	3.9	2.3	2.3	1.5	5.6	5.4	1.8	2.2	.0	.0	29.0	29.0
	22+	1.1	.5	.8	.5	1.2	.9	.4	.9	.0	.0	6.4	6.4
	TOT %	10.0	5.9	6.7	8.1	13.4	11.4	5.9	5.4	.0	3.1	70.0	70.0
TOT OBS													833
TOT PCT													14.4 10.3 11.6 12.2 18.4 14.8 7.4 7.5 .0 3.5 100.0

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(OVER-ALL) 1870-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.8	1.3	1.3	3.8	8.1	16.3	6.9	2.5	.6	.6	45.0	55.0	160
06009	.0	.0	.7	7.5	14.3	19.0	4.8	.0	2.7	1.4	50.3	49.7	147
12015	.9	.0	1.9	3.7	9.3	15.9	3.7	.9	.0	.9	37.4	62.6	107
18021	5.6	.0	2.2	3.4	22.5	9.0	4.5	.0	.0	2.2	49.4	50.6	89
TOT	12	2	7	24	64	79	26	5	5	6	230	273	503
PCT	2.4	.4	1.4	4.8	12.7	15.7	5.2	1.0	1.0	1.2	45.7	54.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	1.2	1.2	7.7	14.1	75.0	248
06009	.4	1.2	2.8	6.3	15.5	73.8	252
12015	.4	2.3	1.5	7.3	22.1	66.4	262
18021	.0	2.0	.9	7.4	20.7	69.5	203
TOT	4	16	15	69	174	687	965
PCT	.4	1.7	1.6	7.2	18.0	71.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.8	6.4	15.9	31.8	52.2	157
06009	.0	.7	9.8	42.0	48.3	143
12015	.9	2.8	9.4	28.3	62.3	106
18021	5.9	8.2	16.5	36.5	47.1	85
TOT	12	21	63	171	257	491
PCT	2.4	4.3	12.8	34.8	52.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	3.2	.0	.0	3.2	.0	2	6.5
60/64	.0	3.2	.0	.0	.0	3.2	12.9	3.2	7	22.6
55/59	.0	.0	6.5	3.2	9.7	3.2	19.4	6.5	15	48.4
50/54	.0	.0	3.2	3.2	.0	9.7	.0	6.5	7	22.6
TOTAL	0	1	3	3	3	5	11	5	31	100.0
PCT	.0	3.2	9.7	9.7	9.7	16.1	35.5	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	2.4	.8	.0	.0	.0	3.2	.0	.0	.0	.0
60/64	.0	3.2	.0	3.2	9.7	.0	3.2	.0	.0	3.2
55/59	6.5	9.7	5.6	8.1	7.3	8.1	.0	3.2	.0	.0
50/54	3.2	3.2	.0	.0	.0	4.0	5.6	3.2	.0	3.2
TOTAL	12.1	16.9	5.6	11.3	16.9	15.3	8.9	6.5	.0	6.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	79	70	60	50	45	36	59.9	250
06009	77	73	70	61	52	48	39	61.2	256
12015	68	66	64	58	48	43	37	57.6	260
18021	82	68	64	57	45	43	42	57.3	204
TOT	82	72	68	59	50	43	36	59.1	970

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	25.0	25.0	8.3	25.0	16.7	73	12
06009	.0	20.0	.0	20.0	50.0	10.0	73	10
12015	.0	33.3	.0	16.7	33.3	16.7	74	6
18021	.0	.0	.0	33.3	33.3	33.3	81	3
TOT	0	7	3	5	11	5	74	31

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	73 76	77 80	81 84	TOT	M FOG	NO FOG
>30	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
23/25	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	3	.0	.4
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	2	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	3	.0	.4
14/16	.0	.0	.0	.0	.1	.1	.2	.0	.1	.1	.0	.0	6	.0	.7
11/13	.0	.0	.0	.0	.2	.4	.4	.5	.2	.2	.0	.1	17	.0	2.0
9/10	.0	.0	.0	.1	.0	.2	.4	.6	.7	.0	.0	.0	17	.1	1.9
7/8	.0	.0	.0	.1	.1	.2	.4	.7	.5	.1	.0	.0	18	.0	2.2
6	.0	.0	.0	.0	.0	.4	.2	.1	.4	.0	.0	.0	9	.1	1.0
5	.0	.0	.0	.1	.4	1.0	1.3	.7	.2	.0	.0	.0	31	.1	3.6
4	.0	.0	.1	.6	.7	1.2	3.2	1.3	.6	.0	.0	.0	65	.0	7.8
3	.0	.0	.0	.0	.2	.8	1.0	.4	.0	.0	.0	.0	20	.1	2.3
2	.0	.0	.4	.5	1.4	1.7	4.9	1.0	.2	.0	.1	.0	85	.5	9.7
1	.0	.0	.0	.0	.4	.6	1.6	.2	.4	.0	.0	.0	26	.0	3.1
0	.0	.1	.5	.7	3.0	3.1	8.5	.8	.1	.1	.0	.0	142	.0	17.1
-1	.0	.0	.0	.4	.1	1.0	1.1	.1	.0	.0	.0	.0	22	.1	2.5
-2	.0	.0	.1	.4	3.7	4.4	4.4	.2	.1	.0	.0	.0	112	.1	13.3
-3	.0	.0	.0	.2	.5	2.0	.4	.0	.0	.0	.0	.0	26	.0	3.1
-4	.0	.0	.6	1.2	2.3	3.7	1.9	.0	.0	.0	.0	.0	81	.1	9.6
-5	.0	.0	.6	.7	1.7	2.3	1.0	.0	.0	.0	.0	.0	52	.1	6.1
-6	.0	.0	.1	.2	.8	.7	.1	.2	.0	.0	.0	.0	19	.0	2.3
-7/-8	.0	.0	.6	1.2	1.1	1.3	.1	.0	.0	.0	.0	.0	36	.0	4.3
-9/-10	.0	.0	.4	.7	.4	.2	.1	.0	.0	.0	.0	.0	15	.0	1.8
-11/-13	.0	.1	.6	.1	.5	.2	.0	.0	.0	.0	.0	.0	14	.0	1.7
-14/-16	.1	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	7	.0	.8
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	4	32	67	144	217	266	60	31	5	2	3	832	1.4	82.0
PCT	.1	.5	3.8	8.0	17.3	26.1	32.0	7.2	3.7	.6	.4	.2	100.0	1.4	98.6

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	.0	.0	.0	.0	1.6	.1	.8	.0	.0	.0	.0	.8
1-2	.2	2.8	1.0	.0	.0	.0	4.0	.0	.4	.8	.0	.0	.0	1.2
3-4	.0	1.3	.6	.5	.0	.0	2.4	.0	.0	3.2	.1	.0	.0	3.3
5-6	.0	.5	1.5	.7	.0	.0	2.6	.0	.1	.6	.1	.0	.0	.8
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	.5	.8	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.5	.1	.0	.3	.0	.8
10-11	.0	.0	.2	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.3	.0	.3
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.3	3.8	1.8	.3	.0	12.2	.1	1.7	5.2	1.1	.5	.0	8.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.9	.1	1.1	.3	.0	.0	.0	1.4
1-2	.3	1.4	.9	.0	.0	.0	2.6	.0	2.1	.9	.0	.0	.0	3.0
3-4	.0	.3	2.6	.8	.0	.0	3.7	.0	.3	2.3	.1	.0	.0	2.7
5-6	.0	.0	1.2	.7	.0	.0	1.9	.0	.0	.8	1.0	.3	.0	2.1
7	.0	.0	.3	.8	.0	.0	1.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.1	5.2	2.6	.0	.0	10.7	.1	3.5	4.7	1.2	.3	.0	9.7

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.6	1.4	.0	.0	.0	.0	2.0		.3	1.7	.3	.0	.0	.0	.0		2.3	
1-2	.3	3.8	2.3	.0	.0	.0	6.3		.0	2.3	3.6	.0	.0	.0	.0		5.9	
3-4	.0	.6	4.7	1.0	.0	.0	6.3		.0	.8	2.7	.3	.0	.0	.0		3.9	
5-6	.0	.0	2.6	1.5	.0	.0	4.1		.0	.0	1.5	.3	.0	.0	.0		1.8	
7	.0	.0	.5	.4	.0	.0	.9		.0	.5	.3	.4	.0	.0	.0		1.2	
8-9	.0	.0	.5	.0	.3	.0	.7		.3	.0	.1	.0	.0	.0	.0		.3	
10-11	.0	.0	.0	.3	.2	.0	.5		.0	.0	.0	.3	.1	.0	.0		.3	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.0	
13-16	.0	.0	.0	.2	.0	.0	.2		.0	.0	.0	.1	.0	.0	.0		.1	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.9	5.8	10.5	3.3	.5	.0	21.0		.6	5.3	8.4	1.4	.1	.0	.0		15.7	

HGT	W								NW								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.0	2.4	.2	.0	.0	.0	2.6		.4	.8	.1	.0	.0	.0	.0		1.3	
1-2	.0	1.7	.5	.0	.0	.0	2.1		.1	1.1	1.6	.0	.0	.0	.0		2.8	
3-4	.0	1.0	1.7	.2	.0	.0	2.9		.0	.0	1.1	.6	.0	.0	.0		1.7	
5-6	.0	.0	.0	.5	.0	.0	.5		.0	.0	.3	.6	.0	.0	.0		.9	
7	.0	.0	.0	.3	.0	.0	.3		.0	.0	.3	.5	.0	.0	.0		.8	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.3	.0	.0	.0		.5	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.3	.0	.0	.0		.3	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.0		.3	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	5.1	2.3	.9	.0	.0	8.3		.5	1.9	3.7	2.5	.0	.0	.0		8.6	94.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	9.3	.8	.0	.0	.0	17.6	
1-2	1.3	15.5	11.6	.0	.0	.0	28.4	
3-4	.0	4.4	18.9	3.6	.0	.0	26.9	
5-6	.0	.5	8.3	3.4	.3	.0	14.7	
7	.0	.5	2.6	3.4	.0	.0	6.5	
8-9	.3	.5	1.0	.3	.5	.0	2.6	
10-11	.0	.0	.5	1.0	.5	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.8	.3	.0	1.0	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.0	30.7	43.9	14.7	1.6	.0	100.0	387

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	16.9	15.2	6.3	2.0	.8	.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	226	3
6-7	.0	2.0	3.5	3.7	3.0	2.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	6
8-9	.0	.6	.4	1.8	1.4	.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	6
10-11	.0	2.6	.6	.0	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	20	4
12-13	.0	.0	.2	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.4	.0	.0	.2	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
INDET	10.6	6.5	5.7	3.7	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	2
TOTAL	66	145	130	81	38	25	12	3	6	1	0	1	0	0	0	0	0	0	0	508	4
PCT	13.0	28.5	25.6	15.9	7.5	4.9	2.4	.6	1.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1872-1974AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	11.7	.0	.0	.0	1.2	.0	.0	13.5	.8	.0	1.3	.0	.0	.0	84.4
NE	12.1	.0	6.1	.0	.9	.0	1.9	21.0	1.9	.0	.5	.0	.0	.0	76.6
E	11.1	.0	2.0	.0	.0	.0	.0	13.1	1.5	.0	2.0	.0	2.0	.0	81.3
SE	9.1	1.6	1.6	.0	.0	.0	.0	12.3	2.0	.0	1.6	.0	.0	.0	84.1
S	4.9	.0	1.3	.0	.0	.0	.0	6.1	.0	.4	2.8	.0	1.3	.0	89.4
SW	1.8	.7	.4	.0	.0	.0	.0	2.8	1.4	1.1	2.7	.0	1.1	.0	91.0
W	2.5	.0	.8	.0	.8	.0	.0	4.1	.0	.0	1.2	.0	.0	.0	94.7
NW	6.6	.0	.0	.0	1.5	.0	.8	8.1	.0	.0	1.1	.0	1.5	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	5.6	.0	.0	.0	.0	5.5	.0	.0	5.6	.0	5.6	.0	83.3
TOT PCT	6.4	.2	1.2	.0	.6	.0	.2	8.6	.7	.2	1.8	.0	.8	.0	87.8
TOT OBS:	827														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	6.3	.0	.8	.0	.0	.0	.4	7.5	2.1	.4	2.5	.0	1.3	.0	86.3
06009	3.6	.0	1.4	.0	.5	.0	.0	7.4	.0	.5	2.3	.0	.5	.0	89.3
12015	6.0	.0	1.6	.0	1.2	.0	.0	8.8	.4	.0	1.2	.0	.8	.0	88.8
18021	7.6	1.4	.7	.0	.7	.0	.7	10.3	.0	.0	.7	.0	1.4	.0	87.6
TOT PCT TOT OBS:	6.2 849	.2	1.2	.0	.6	.0	.2	8.4	.7	.2	1.8	.0	.9	.0	88.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.7	7.0	3.5	.3	.0		15.1	13.8		16.0	20.1	10.9	16.2	17.9	12.5	16.9	12.7
NE	.5	2.1	1.9	1.1	.1	.0		5.8	14.1		6.7	2.7	5.8	4.2	4.6	7.2	6.2	7.7
E	.8	2.3	1.7	.4	.0	.0		5.3	10.8		3.1	3.0	4.2	8.5	7.3	5.8	4.6	7.0
SE	.3	4.1	2.0	.3	.0	.1		6.8	10.2		7.6	4.5	4.4	10.6	1.9	12.0	5.0	11.3
S	1.0	4.2	7.9	1.0	.0	.1		14.1	12.8		12.9	11.4	17.2	7.0	14.0	21.2	11.9	12.0
SW	.3	6.0	9.1	3.2	.3	.0		18.9	14.7		13.4	24.6	22.4	15.5	22.3	15.4	16.9	21.8
W	.2	4.9	6.6	3.5	.0	.0		15.3	14.8		16.0	14.8	16.1	21.1	13.7	9.6	19.2	14.8
NW	.4	3.5	9.4	3.5	.1	.0		16.8	15.8		20.7	17.4	16.1	15.5	16.7	15.4	17.7	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		3.4	1.5	2.9	1.4	1.5	1.0	1.5	.0
TOT OBS	48	244	360	130	6	1	789		14.0		143	66	137	71	130	104	65	71
TOT PCT	6.1	30.9	45.6	16.5	.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	06	12	18
N	2.2	6.2	5.3	1.3	.2		15.1	13.8		17.3	12.7	15.5	14.7
NE	1.8	1.7	1.6	.6	.1		5.8	14.1		5.5	5.3	5.8	7.0
E	2.2	1.7	1.3	.1	.0		5.3	10.8		3.1	5.6	6.6	5.9
SE	2.6	3.4	.8	.0	.1		6.8	10.2		6.6	6.5	6.4	8.3
S	2.9	7.7	3.1	.3	.1		14.1	12.8		12.4	13.7	17.2	11.9
SW	2.7	9.2	5.7	1.2	.1		18.9	14.7		16.9	20.1	19.2	19.5
W	2.1	7.7	4.2	1.3	.0		15.3	14.8		15.6	17.8	11.9	16.9
NW	1.9	7.3	6.5	1.1	.0		16.8	15.8		19.7	15.9	16.1	13.1
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.9						1.9	.0		2.8	2.4	1.3	.7
TOT OBS	159	354	225	47	4	789		14.0		211	208	234	136
TOT PCT	20.2	44.9	28.5	6.0	.5		100.0			100.0	100.0	100.0	100.0

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PERIOD: (1. (IMARY) 1939-1974
(OVER-ALL) 1872-1974AREA 0018 TATAR STRAIT S
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	2.8	4.3	27.0	46.0	19.9	.0	.0	14.3	100.0	211
06609	2.4	3.8	28.8	48.6	15.4	1.0	.0	14.0	100.0	208
12615	1.3	3.8	35.9	42.3	15.0	1.3	.0	13.7	100.0	234
18621	.7	5.1	31.6	46.3	15.4	.7	.0	13.8	100.0	136
TOT	15	33	244	360	130	6	1	14.0		789
PCT	1.9	4.2	30.9	45.6	16.5	.8	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	2.3	5.2	4.8		5.2
NE	.6	.4	2.0	3.5		6.5
E	1.3	.4	2.1	1.6		3.2
SE	2.0	.1	1.9	2.9		5.3
S	4.9	2.3	4.4	2.7		4.1
SW	8.0	2.0	4.0	1.9		3.1
W	6.5	2.6	4.5	1.5		3.4
NW	7.1	3.3	5.0	2.3		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	.0	.8		3.7
TOT OBS	168	65	143	106	482	4.2
TOT PCT	34.9	13.5	29.7	22.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999	ANY HGT	OBS	
N	.7	.0	.2	.4	2.1	3.7	1.0	.0	.6	.4	6.2	
NE	.5	.0	.1	.0	1.1	2.6	.6	.0	.0	.0	1.7	
E	.0	.0	.4	.6	.6	1.2	.2	.0	.0	.0	2.3	
SE	.3	.0	.1	.4	1.3	2.0	.4	.2	.0	.0	2.2	
S	.4	.0	.0	.4	1.0	2.3	.5	.0	.2	.2	9.4	
SW	.0	.0	.0	.1	2.0	1.4	1.7	.0	.2	.0	10.7	
W	.0	.0	.2	.2	1.0	1.7	1.0	.4	.4	.0	10.2	
NW	.3	.0	.0	.2	1.8	2.2	1.3	.0	.2	.5	11.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.6	.2	.0	.0	.0	.0	1.7	
TOT OBS	11	0	4	12	55	83	32	3	8	6	268	482
TOT PCT	2.3	.0	.8	2.5	11.4	17.2	6.6	.6	1.7	1.2	55.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.0	2.8	2.8	2.8	3.0	3.0	3.0	3.0
>5000	2.4	3.2	3.4	3.4	3.6	3.6	3.6	3.6
>3500	7.6	9.8	10.0	10.0	10.2	10.2	10.2	10.2
>2000	17.8	25.5	26.7	26.7	27.1	27.1	27.1	27.1
>1000	25.3	36.3	38.1	38.3	38.7	38.7	38.7	38.7
>600	26.3	38.1	40.5	40.7	41.1	41.1	41.1	41.1
>300	26.5	38.7	41.1	41.5	41.9	41.9	41.9	41.9
>150	26.5	38.7	41.1	41.5	41.9	41.9	41.9	41.9
>0	26.7	39.7	43.1	43.7	44.1	44.1	44.1	44.1
TOTAL	133	198	215	218	220	220	220	220

TOTAL NUMBER OF OBS: 499

PCT FREQ NH <5/8: 55.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.9	7.5	11.0	5.8	6.4	7.5	10.2	8.7	16.8	2.1 518

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1872-1974AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.1	.1	.0	.0	.0	.0	.2	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.2	
	TOT %	.2	.1	.1	.0	.0	.1	.1	.3	.0	.0	1.0	
1/2<1	PCP	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.2	*	.0	.1	.1	.1	.0	.0	.0	.0	.5	
1<2	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.6	
2<5	PCP	.7	.7	.2	.3	.3	.1	.2	.1	.0	.0	2.7	
	NO PCP	.2	.1	.4	.3	.4	.4	.1	.4	.0	.1	2.4	
	TOT %	.9	.8	.6	.6	.7	.5	.4	.5	.0	.1	5.1	
5<10	PCP	.6	.3	.4	.6	.4	.2	.1	.7	.0	.0	3.4	
	NO PCP	3.2	1.8	1.0	1.4	3.4	3.0	1.4	2.8	.0	.4	18.5	
	TOT %	3.8	2.1	1.4	2.1	3.8	3.3	1.6	3.5	.0	.4	21.9	
10+	PCP	.3	.0	.0	.0	.1	.1	.2	.4	.0	.1	1.3	
	NO PCP	10.1	3.1	3.7	4.8	9.5	13.0	12.5	11.5	.0	1.6	69.7	
	TOT %	10.4	3.1	3.7	4.8	9.6	13.1	12.7	11.9	.0	1.7	71.0	
TOT OBS													828
TOT PCT		13.8	6.5	6.0	7.6	14.2	17.0	14.7	16.2	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
	11-21	.2	.1	.1	.0	.0	.1	.0	.1	.0	.0	.6	
	22+	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.3	.1	.1	.0	.0	.3	.1	.3	.0	.0	1.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	22+	.2	*	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	TOT %	.2	*	.0	.0	.1	.2	.0	.1	.0	.0	.6	
1<2	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	.3	.2	.1	.0	.1	.0	.0	.1	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.3	.3	.3	.5	.5	.3	.0	.2	.0	.0	2.3	
	11-21	.5	*	.1	.0	.5	1.1	.5	.6	.0	.0	3.2	
	22+	.6	.1	.1	.3	.4	.1	.3	.4	.0	.0	2.3	
	TOT %	1.4	.4	.5	.7	1.5	1.5	.7	1.2	.0	.1	8.1	
5<10	0-3	.4	.1	.1	.0	.2	.1	.0	.2	.0	.3	1.3	
	4-10	.4	.8	.6	.9	1.2	.8	.9	.7	.0	.0	6.3	
	11-21	1.8	.7	.3	.9	1.9	2.2	.4	1.8	.0	.0	9.9	
	22+	1.2	.4	.0	.0	.4	.4	.4	1.0	.0	.0	3.7	
	TOT %	3.7	2.0	1.0	1.8	3.7	3.4	1.7	3.7	.0	.3	21.2	
10+	0-3	.3	.4	.6	.3	.3	.2	.1	.2	.0	1.5	3.9	
	4-10	3.0	1.1	1.3	2.9	2.5	4.4	3.9	2.6	.0	.0	21.9	
	11-21	4.6	1.1	1.3	1.1	5.6	5.6	5.9	7.0	.0	.0	32.2	
	22+	1.5	.5	.3	.1	.3	3.0	2.6	1.6	.0	.0	9.9	
	TOT %	9.4	3.1	3.6	4.3	8.8	13.2	12.5	11.5	.0	1.5	67.8	
TOT OBS													777
TOT PCT		13.3	5.9	5.4	6.9	14.1	18.7	15.1	18.9	.0	1.9	100.0	

OCTOBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1872-1974AREA 0018 TATAR STRAIT S
48.0N 141.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	2.4	.0	1.8	2.4	11.4	21.0	7.2	.6	.6	1.2	48.5	51.5	167
06009	2.0	.0	.7	2.7	14.3	12.9	7.5	.7	1.4	.7	42.9	57.1	147
12015	2.5	.0	.0	1.7	10.7	12.4	5.8	.8	2.5	2.5	38.8	61.2	121
18021	2.8	.0	.0	2.8	7.0	22.5	5.6	.0	2.8	1.4	45.1	54.9	71
TOT	12	0	4	12	58	85	34	3	8	7	223	283	506
PCT	2.4	.0	.8	2.4	11.5	16.8	6.7	.6	1.6	1.4	44.1	55.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.4	.4	1.6	7.7	18.6	71.3	247
06009	.9	.4	.4	6.7	18.8	72.8	224
12015	1.1	1.5	1.1	8.4	25.7	62.1	261
18021	2.6	.0	1.9	10.3	19.9	66.0	156
TOT	10	6	10	72	186	604	888
PCT	1.1	.7	1.1	8.1	20.9	68.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	1.8	3.7	9.8	40.2	50.0	164
06009	2.1	2.8	9.0	35.2	55.9	145
12015	2.5	4.2	9.2	31.7	59.2	120
18021	2.9	2.9	11.4	37.1	51.4	70
TOT	11	17	48	181	270	499
PCT	2.2	3.4	9.6	36.3	54.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	2.5	.0	.0	.0	2.5	.0	2	5.0
50/54	.0	2.5	2.5	2.5	.0	10.0	5.0	20.0	17	42.5
45/49	.0	2.5	.0	2.5	2.5	10.0	5.0	.0	9	22.5
40/44	.0	.0	.0	2.5	2.5	2.5	.0	2.5	4	10.0
35/39	.0	.0	.0	.0	7.5	2.5	2.5	.0	3	12.5
30/34	.0	.0	.0	.0	.0	.0	.0	7.5	3	7.5
TOTAL	0	2	2	3	5	10	6	12	40	100.0
PCT	.0	5.0	5.0	7.5	12.5	25.0	15.0	30.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5
2.5	7.5	7.5	10.0	1.9	.6	7.5	2.5	.0	2.5
3.8	2.5	.0	.0	1.9	6.3	4.4	3.8	.0	.0
4.4	.6	.0	.0	2.5	.0	.0	2.5	.0	.0
2.5	.0	.0	.0	.0	.0	9.4	.6	.0	.0
.0	.0	.0	.0	.0	.0	.0	7.5	.0	.0
13.1	10.6	7.5	10.0	8.8	6.9	21.3	16.9	.0	5.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	64	63	59	48	37	34	28	47.8	245
06009	67	65	60	48	37	32	32	48.5	223
12015	61	59	56	46	36	32	27	46.5	265
18021	59	57	55	48	34	32	25	46.3	156
TOT	67	63	58	48	36	32	25	47.3	889

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	16.7	25.0	25.0	16.7	16.7	74	12
06009	.0	27.3	.0	36.4	.0	36.4	73	11
12015	.0	16.7	16.7	16.7	16.7	32.3	76	6
18021	.0	9.1	9.1	18.2	27.3	36.4	83	11
TOT	0	7	5	10	6	12	76	40

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1872-1974

TABLE 17

AREA: 0018 TATAR STRAIT S
48.0N 141.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	2	.0	.3
14/16	.0	.0	.0	.0	.0	.4	.1	.0	.1	.1	.0	6	.0	.6
11/13	.0	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	5	.0	.7
9/10	.0	.0	.0	.0	.1	.4	.0	.3	.4	.3	.1	12	.0	1.6
7/8	.0	.0	.0	.1	.0	.0	.7	.0	.4	.1	.0	10	.1	1.2
6	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	4	.0	.5
5	.0	.0	.0	.0	.1	.8	.3	1.2	.5	.1	.0	23	.0	3.1
4	.0	.0	.0	.1	.3	1.7	.7	.9	.5	.4	.0	35	.1	4.5
3	.0	.0	.0	.0	.3	.3	.3	.3	.5	.1	.0	13	.1	1.6
2	.0	.0	.1	.8	.5	2.0	2.7	1.3	.8	.1	.0	63	.1	8.2
1	.0	.0	.0	.0	.1	.4	.7	.4	.7	.1	.0	18	.1	2.3
0	.0	.0	.0	.5	1.5	3.6	2.8	1.9	1.5	.1	.0	89	.3	11.5
-1	.0	.0	.0	.0	.3	.4	.8	1.3	.4	.0	.0	24	.0	3.2
-2	.0	.1	.0	.8	.7	4.0	3.6	1.5	.7	.0	.0	87	.1	11.4
-3	.0	.0	.0	.1	.1	.8	.7	.9	.3	.0	.0	22	.0	2.9
-4	.0	.1	.3	.8	1.6	2.8	2.1	1.2	.3	.0	.0	69	.3	8.9
-5	.0	.0	.7	2.0	2.1	2.8	1.1	.5	.3	.0	.0	71	.4	9.0
-6	.0	.0	.1	.1	.1	.5	.9	.4	.0	.0	.0	17	.0	2.3
-7/-8	.0	.4	.5	1.1	2.3	2.9	2.8	.0	.1	.0	.0	76	.0	10.1
-9/-10	.1	.3	.4	.7	2.1	1.3	.7	.1	.1	.0	.0	44	.1	5.7
-11/-13	.0	.3	.5	1.7	1.1	.4	.1	.1	.0	.0	.0	32	.0	4.2
-14/-16	.0	.0	.4	1.5	.5	.0	.0	.0	.0	.0	.0	18	.0	2.4
-17/-19	.1	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	5	.0	.7
-20/-22	.0	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	7	.0	.9
TOTAL	2	11	26	83	109	161	96	56	14	3		754	1.9	740
PCT	.3	1.5	3.4	11.0	14.5	25.6	21.4	12.7	7.4	1.9	.4	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.2	.3	.0	.0	.0	1.8	.3	.5	.0	.0	.0	.0	.7
1-2	.0	1.2	1.3	.0	.0	.0	2.5	.0	1.2	.6	.0	.0	.0	1.8
3-4	.0	.3	2.2	.0	.0	.0	2.5	.0	.0	.8	.3	.0	.0	1.1
5-6	.0	.0	1.9	.5	.0	.0	2.4	.0	.0	1.1	.5	.0	.0	1.6
7	.0	.0	.5	.7	.0	.0	1.2	.0	.0	.3	.6	.0	.0	.9
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.6	.2	.0	.8	.0	.0	.0	.3	.1	.0	.4
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.6	6.4	3.3	.2	.0	13.0	.3	1.7	2.8	2.2	.1	.0	7.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.1	.9	.6	.0	.0	.0	1.6
1-2	.0	.7	.5	.0	.0	.0	1.3	.0	1.1	.5	.0	.0	.0	1.6
3-4	.0	.3	.7	.3	.0	.0	1.2	.0	.0	.4	.3	.0	.0	.7
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.0	.8	.0	.0	4.1	.1	2.0	2.2	.3	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1974

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AREA 0018 TATAR STRAIT S
48.0N 141.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.2	.9	.2	.0	.0	.0	1.4		.0	1.1	.0	.0	.0	.0	.0		1.1	
1-2	.3	.9	1.8	.0	.0	.0	3.0		.0	3.1	2.0	.0	.0	.0	.0		5.1	
3-4	.0	.8	3.7	.0	.0	.0	4.5		.0	.5	3.0	.1	.0	.0	.0		3.7	
5-6	.0	.2	3.0	.5	.0	.0	3.8		.0	.1	2.1	2.2	.0	.0	.0		4.4	
7	.0	.0	.9	.3	.0	.0	1.2		.0	.3	1.0	.8	.0	.0	.0		2.1	
8-9	.0	.0	.3	.7	.0	.0	1.0		.0	.0	1.1	.3	.3	.0	.0		1.7	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.5	.0	.0	.0		.8	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.3	.0	.0	.0	.3		.0	.0	.3	.3	.0	.0	.0		.5	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	2.9	10.2	1.6	.0	.0	15.1		.0	3.1	9.8	4.2	.3	.0	.0		19.4	

HGT	W								NW								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.0	1.8	.8	.0	.0	.0	2.6		.1	.1	.0	.0	.0	.0	.0		.2	
1-2	.0	1.0	2.3	.0	.0	.0	3.3		.0	1.8	3.1	.0	.0	.0	.0		4.9	
3-4	.0	.0	3.3	.5	.0	.0	3.8		.0	.5	3.7	.0	.0	.0	.0		4.2	
5-6	.0	.3	.9	.9	.0	.0	2.4		.0	.3	3.1	.7	.0	.0	.0		4.1	
7	.0	.0	.7	.8	.0	.0	1.6		.0	.0	2.0	.6	.0	.0	.0		2.6	
8-9	.0	.0	.0	1.0	.0	.0	1.0		.0	.0	.8	.5	.0	.0	.0		1.4	
10-11	.0	.0	.0	.3	.0	.0	.3		.0	.0	.0	.7	.0	.0	.0		.7	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.5	.0	.0	.0		.8	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.3	8.1	3.5	.0	.0	15.0		.1	2.6	12.9	3.0	.0	.0	.0		18.8	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.1	6.8	1.9	.0	.0	.0	12.7	
1-2	.3	11.1	12.2	.0	.0	.0	23.6	
3-4	.0	2.4	17.9	1.4	.0	.0	21.7	
5-6	.0	1.1	12.7	5.4	.0	.0	19.2	
7	.0	.3	6.0	4.1	.0	.0	10.3	
8-9	.0	.0	2.4	3.3	.3	.0	6.0	
10-11	.0	.0	.5	2.4	.3	.0	3.3	
12	.0	.0	.3	.8	.0	.0	1.1	
13-16	.0	.0	.5	.8	.0	.0	1.4	
17-19	.0	.0	.0	.8	.0	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	21.7	54.5	19.0	.5	.0	100.0	369

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	10.1	11.1	8.9	3.2	2.4	1.4	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	4
6-7	.0	1.4	2.0	6.7	4.9	3.6	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	6
8-9	.2	.2	.2	.2	2.2	1.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
10-11	.0	.6	.0	.2	.6	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
12-13	.0	.0	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	6.3	7.7	6.5	5.1	3.4	.8	.6	.0	.4	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	156	4
TOTAL	35	99	100	109	73	43	17	5	7	5	0	0	1	0	0	0	0	0	0	494	5
PCT	7.1	20.0	20.2	22.1	14.8	8.7	3.4	1.0	1.4	1.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1939-1974AREA 0018 TATAR STRAIT S
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA					
N	4.6	.0	.6	.0	23.1	.0	.8	29.1	.8	.0	.0	.0	.0	.0	70.2					
NE	2.5	.0	.6	.0	20.8	.0	.0	23.9	.0	.0	2.3	.0	.0	.0	73.6					
E	1.6	.0	3.1	.0	7.1	.0	.0	11.8	3.1	.0	.0	.0	.0	.0	85.0					
SE	13.3	3.3	3.3	.0	7.5	.0	.0	24.2	.0	.0	4.2	.0	.0	.0	71.7					
S	12.0	.0	3.3	.0	5.3	.0	.0	22.7	.0	.0	3.3	.0	2.7	.0	71.3					
SW	6.7	.0	.0	.0	6.7	.0	.0	13.4	.0	.0	1.3	.0	.0	.0	85.3					
W	1.7	.0	.0	.0	5.0	.0	.0	6.7	.0	.0	.6	.8	.0	.0	90.6					
NW	1.5	1.0	.5	.5	14.4	.5	.0	18.4	1.1	.0	.5	.0	.0	.1	79.9					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	9.1	.0	9.1	.0	.0	.0	.0	18.2	.0	.0	9.1	.0	.0	9.1	63.6					
TOT PCT	3.9	.5	1.1	.2	12.7	.2	.2	18.5	.8	.0	1.1	.2	.2	.3	79.1					
TOT OBS:	661																			

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	1.8	.0	.6	.0	9.4	.6	.0	12.3	.6	.0	2.9	.6	.0	.6	83.0
0600	4.9	1.6	.5	.0	12.4	.0	.5	20.0	.5	.0	1.1	.0	.5	.0	77.8
1200	5.7	.0	1.6	.0	12.5	.0	.0	19.3	1.0	.0	.0	.0	.0	.5	79.2
1800	2.9	.7	1.5	.7	16.8	.0	.0	22.6	1.5	.0	.0	.0	.0	.0	75.9
TOT PCT	3.9	.6	1.0	.1	12.6	.1	.1	18.4	.9	.0	1.0	.1	.1	.3	79.1
TOT OBS:	685														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	3.4	7.2	5.7	3.6	.0		20.6	20.7		23.3	21.2	18.9	22.0	13.8	26.7	18.8	21.8
NE	.2	1.7	2.7	1.4	.1	.0		6.1	16.2		6.6	.5	5.2	12.3	6.6	5.8	6.7	4.5
E	.5	2.4	1.4	.5	.0	.0		4.8	9.8		3.2	4.7	3.8	6.0	4.1	5.8	3.1	7.7
SE	.2	2.9	.9	.2	.0	.0		4.2	8.3		1.1	6.6	4.0	5.2	4.1	5.8	2.2	5.1
S	.0	3.2	2.3	.5	.0	.0		6.0	11.8		4.6	7.5	10.8	6.7	5.4	2.3	4.9	5.1
SW	.2	2.7	3.9	2.1	.0	.0		8.9	15.9		17.2	13.7	9.2	7.5	9.4	4.1	4.9	4.5
W	.4	4.4	6.7	5.0	1.3	.1		17.9	18.7		25.6	21.2	13.9	14.2	22.2	9.3	21.0	17.9
NW	.3	5.7	13.5	6.9	2.9	.7		30.0	19.7		17.2	22.6	31.4	26.1	31.4	39.0	38.4	33.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		1.1	1.9	2.8	.0	3.1	1.2	.0	.0
TOT OBS	25	166	244	141	50	5	631		17.5		87	53	106	67	98	86	56	78
TOT PCT	4.0	26.3	38.7	22.3	7.9	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.2	5.9	6.2	5.5	.9		20.6	20.7	22.5	20.1	19.8	20.5
NE	.6	2.6	2.5	.4	.0		6.1	16.2	4.3	7.9	6.3	5.4
E	2.1	2.1	.6	.0	.0		4.8	9.8	3.8	4.6	4.9	5.8
SE	2.3	1.7	.2	.0	.0		4.2	8.3	3.2	4.5	4.9	3.9
S	1.8	3.0	1.1	.1	.0		6.0	11.8	5.7	9.2	3.9	5.0
SW	.8	3.7	3.7	.8	.0		8.9	15.9	15.9	8.5	6.9	4.7
W	2.3	5.3	6.4	3.4	.6		17.9	18.7	23.9	14.0	16.2	19.2
NW	2.1	10.7	10.2	6.0	1.1		30.0	19.7	19.3	29.3	34.9	33.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.4	1.7	2.2	.0
TOT OBS	98	220	195	102	16	631		17.5	140	173	184	134
TOT PCT	15.5	34.9	30.9	16.2	2.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.4	1.4	32.9	32.9	25.7	5.0	.7	16.6	100.0	140
0600Z	1.7	1.7	19.7	44.5	21.4	10.4	.6	18.5	100.0	173
1201Z	2.2	1.6	28.8	38.0	22.3	6.0	1.1	16.9	100.0	184
1802Z	.0	0.0	24.6	38.1	20.1	10.4	.7	17.8	100.0	134
TOT	9	16	166	244	141	50	3	17.5		631
PCT	1.4	2.5	26.3	38.7	22.3	7.9	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.9	4.8	6.4		5.9
NE	.8	.5	1.5	2.5		6.0
E	.0	.3	1.1	1.2		6.7
SE	1.6	.3	.4	1.3		4.5
S	1.4	.5	1.8	2.1		5.3
SW	3.5	2.1	2.0	3.5		4.5
W	9.5	3.7	7.7	1.7		3.4
NW	7.1	5.2	11.6	8.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.6	.6		4.3
TOT OBS	88	46	103	89	326	4.8
TOT PCT	27.0	14.1	31.6	27.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.0	.3	4.1	3.5	1.8	.0	.0	.5	3.6	
NE	.1	.0	.0	.0	.7	2.2	.6	.0	.0	.0	1.7	
E	.0	.0	.2	.3	.5	.8	.0	.0	.0	.0	.6	
SE	.0	.0	.1	.6	.4	.6	.0	.0	.0	.0	1.9	
S	.6	.0	.0	.3	.9	1.6	.2	.0	.0	.0	2.1	
SW	.3	.0	.0	.0	1.5	1.5	1.1	.0	.3	.0	6.3	
W	.0	.0	.0	.6	2.1	3.1	.5	.3	.0	.2	15.3	
NW	3.2	.0	.3	1.5	6.9	5.5	1.0	.6	.3	.2	13.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.3	.0	.0	.0	.0	.0	.0	.3	.3	1.2	
TOT OBS	17	1	2	12	56	62	17	3	3	4	149	326
TOT PCT	5.2	.3	.6	3.7	17.2	19.0	5.2	.9	.9	1.2	45.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	2.0	2.3	2.6	2.6	2.6	2.6	2.6	2.6
= OR >3000	2.6	3.5	3.8	3.8	3.8	3.8	3.8	3.8
= OR >1500	7.3	9.0	9.3	9.3	9.3	9.3	9.3	9.3
= OR >1000	21.2	26.7	27.9	28.2	28.2	28.2	28.2	28.2
= OR >500	29.1	37.5	41.9	43.6	44.2	44.2	44.8	45.1
= OR >300	29.7	39.8	44.5	46.5	47.4	47.4	48.3	48.5
= OR >150	30.2	40.4	45.1	47.1	48.0	48.0	48.8	49.1
= OR >50	30.5	40.7	45.3	47.4	48.3	48.3	49.1	49.4
= OR >0	30.5	41.3	46.2	49.1	50.9	51.5	54.1	54.4
TOTAL	105	142	159	169	175	177	186	187

TOTAL NUMBER OF OBS: 344

PCT FREQ NH <5/8: 45.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
20.2	3.0	8.9	8.6	3.9	6.9	11.9	9.7	22.4	361

PERIOD: (PRIMARY) 1937-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.1	.4	.2	.0	.0	.2	.0	1.1	.0	.0	2.9	
	NO PCP	.0	.2	.0	.0	.0	.0	.2	.2	.0	.0	.5	
	TOT %	1.1	.6	.2	.0	.0	.2	.2	1.2	.0	.0	3.3	
1/2<1	PCP	.8	.1	.1	.2	.2	.3	.0	1.1	.0	.0	2.6	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	
	TOT %	.8	.1	.1	.2	.3	.3	.0	1.2	.0	.0	2.9	
1<2	PCP	.9	.2	.0	.2	.3	.2	.4	1.8	.0	.2	3.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
	TOT %	.9	.2	.0	.2	.3	.2	.5	1.9	.0	.2	3.8	
2<5	PCP	2.1	.3	.1	.1	.2	.5	.2	.8	.0	.2	4.5	
	NO PCP	.3	.2	.0	.2	.1	.3	.2	.3	.0	.0	1.5	
	TOT %	2.4	.5	.1	.3	.3	.7	.5	1.2	.0	.2	6.0	
5<10	PCP	.8	.3	.2	.3	.8	.2	.5	1.1	.0	.0	3.9	
	NO PCP	3.5	.9	1.4	.9	.9	1.5	3.2	6.3	.0	.3	18.9	
	TOT %	4.2	1.2	1.5	1.2	1.7	1.7	3.6	7.4	.0	.3	22.8	
10+	PCP	.2	.2	.1	.4	.0	.0	.2	.3	.0	.0	1.2	
	NO PCP	10.2	3.4	2.8	2.4	3.2	6.0	13.2	17.6	.0	1.1	60.0	
	TOT %	10.4	3.5	2.9	2.8	3.2	6.0	13.3	17.9	.0	1.1	61.2	
TOT OBS													662
TOT PCT		19.8	6.0	4.8	4.5	5.8	9.0	18.1	30.4	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.6	.4	.2	.0	.0	.2	.1	.4	.0		1.8	
	22+	.5	.0	.0	.0	.0	.0	.1	.7	.0		1.3	
	TOT %	1.0	.4	.2	.0	.0	.2	.2	1.1	.0	.0	3.0	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.1	.1	.0	.0	.2	.0	.0	.0	.0	.3	
	11-21	.2	.0	.0	.0	.2	.0	.0	.6	.0		1.0	
	22+	.6	.0	.0	.0	.0	.2	.0	.8	.0		1.6	
	TOT %	1.0	.1	.1	.2	.2	.3	.0	1.4	.0	.0	3.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.0	.0	.2	.1	.0	.2	.0		.6	
	11-21	.5	.0	.0	.2	.1	.2	.2	.2	.0		1.4	
	22+	.6	.0	.0	.0	.0	.2	.8	1.1	.0		2.7	
	TOT %	1.1	.2	.0	.2	.4	.4	1.0	1.5	.0	.2	5.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2	.5	
	4-10	.2	.0	.0	.2	.3	.4	.2	.2	.0		1.6	
	11-21	1.6	.2	.0	.0	.2	.2	.1	1.3	.0		3.3	
	22+	1.3	.4	.0	.0	.2	.4	1.0	.0	.0		3.2	
	TOT %	3.2	.5	.0	.2	.5	.8	.9	2.5	.0	.2	8.8	
5<10	0-3	.2	.0	.2	.0	.0	.0	.2	.0	.3	.3	.8	
	4-10	.2	.2	.6	.8	.7	.1	.7	.5	.0		3.8	
	11-21	1.1	.6	.5	.1	.5	.8	1.5	4.0	.0		9.1	
	22+	2.7	.5	.5	.2	.4	.6	1.1	2.6	.0		8.6	
	TOT %	4.2	1.3	1.7	1.1	1.6	1.4	3.4	7.3	.0	.3	22.4	
10+	0-3	.6	.2	.3	.0	.0	.2	.2	.2	.0	.8	2.4	
	4-10	2.8	1.2	1.7	1.9	1.9	2.0	3.6	4.6	.0		19.6	
	11-21	3.4	1.6	.8	.6	1.4	2.6	4.6	6.9	.0		21.9	
	22+	3.6	.7	.0	.0	.1	1.0	4.1	4.2	.0		13.7	
	TOT %	10.3	3.6	2.8	2.6	3.4	5.8	12.4	15.9	.0	.8	57.7	
TOT OBS													626
TOT PCT		20.8	6.2	4.8	4.2	6.1	8.9	17.8	29.8	.0	1.4	100.0	

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PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1939-1974AREA 0018 TATAR STRAIT S
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.8	.0	.9	2.7	16.2	22.3	4.5	.9	2.7	2.7	53.0	45.0	111
06009	3.7	.9	.0	5.6	19.4	25.9	7.4	.0	.9	.0	63.9	36.1	108
12015	8.1	.0	1.2	1.2	14.0	5.8	5.8	3.5	.0	2.3	41.9	58.1	86
18021	9.1	.0	.0	4.5	18.2	15.9	2.3	.0	.0	.0	50.0	50.0	44
TOT	17	1	2	12	59	65	19	4	4	5	188	161	349
PCT	4.9	.3	.6	3.4	16.9	18.6	5.4	1.1	1.1	1.4	53.9	46.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	3.9	1.1	4.5	8.9	13.4	68.2	179
06009	1.6	3.1	5.2	5.8	22.0	62.3	191
12015	5.3	3.3	4.3	10.0	24.4	52.6	209
18021	4.1	5.5	4.1	7.6	26.9	51.7	145
TOT	27	23	33	59	156	426	724
PCT	3.7	3.2	4.6	8.1	21.5	58.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.8	6.3	18.0	37.8	44.1	111
06009	3.7	6.5	14.8	49.1	36.1	108
12015	9.6	12.0	19.3	24.1	56.6	86
18021	9.5	9.5	19.0	33.3	47.6	42
TOT	18	28	60	129	155	344
PCT	5.2	8.1	17.4	37.5	45.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	4.3	4.3	.0	.0	2	8.7
40/44	.0	.0	.0	13.0	.0	4.3	.0	4.3	5	21.7
30/34	.0	.0	.0	.0	.0	.0	.0	4.3	1	4.3
25/29	.0	.0	.0	.0	8.7	4.3	.0	8.7	5	21.7
20/24	.0	.0	.0	.0	4.3	13.0	13.0	.0	7	30.4
15/19	.0	.0	.0	4.3	.0	4.3	4.3	.0	3	13.0
TOTAL	0	0	0	4	4	7	4	4	23	100.0
PCT	.0	.0	.0	17.4	17.4	30.4	17.4	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.0	.0	.0	4.3	.0	.0	4.3
40/44	.0	.0	.0	.0	4.3	.0	13.0	4.3	.0	.0
30/34	.0	.0	3.3	1.1	.0	.0	.0	.0	.0	.0
25/29	7.6	.0	.0	.0	.0	.0	3.3	10.9	.0	.0
20/24	.0	.0	.0	.0	.0	.0	6.5	23.9	.0	.0
15/19	.0	.0	.0	.0	.0	.0	6.5	6.5	.0	.0
TOTAL	7.6	.0	3.3	1.1	4.3	.0	33.7	45.7	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	55	50	33	14	7	7	33.1	174
06009	64	56	48	34	18	10	9	33.4	190
12015	54	48	46	30	17	7	7	30.9	208
18021	54	50	46	30	16	12	10	31.3	148
TOT	64	54	48	32	17	10	7	32.2	720

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.7	16.7	33.3	16.7	16.7	77	6
06009	.0	.0	20.0	60.0	.0	20.0	77	5
12015	.0	20.0	.0	20.0	40.0	20.0	77	5
18021	.0	25.0	25.0	25.0	12.5	12.5	72	8
TOT	0	4	4	8	4	4	75	24

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	3	.2	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.2	.0	.0	4	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.2	.0	6	.2	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.2	.5	.4	.5	.2	.2	.0	.0	11	.0	1.9
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.4	.0	.0	.0	12	.0	2.1
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
2	.0	.0	.0	.0	.0	.4	.0	.4	.5	3.0	.4	.0	.0	.0	.0	26	.0	4.6
1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2	.0	.4
0	.0	.0	.0	.0	.0	.0	.2	1.8	1.1	1.2	3.2	.2	.4	.0	.0	45	.0	7.9
-1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	4	.0	.7
-2	.0	.0	.0	.0	.0	.5	2.1	1.8	1.4	2.1	.5	.0	.0	.0	.0	48	.0	8.5
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	4	.0	.7
-4	.0	.0	.0	.0	.0	.5	1.2	1.8	1.4	1.1	.4	.0	.2	.2	.0	38	.4	6.3
-5	.0	.0	.0	.0	.0	.7	1.9	1.1	2.5	.5	.2	.2	.2	.0	.0	41	.0	7.2
-6	.0	.0	.0	.0	.0	.0	.2	.4	.9	.2	.2	.0	.0	.0	.0	10	.0	1.8
-7/-8	.0	.0	.0	.0	.4	2.5	1.2	1.6	1.4	.4	.0	.4	.2	.0	.0	45	.2	7.7
-9/-10	.0	.0	.0	.7	1.2	1.4	1.1	1.8	1.4	.7	.4	.0	.0	.0	.0	49	.0	8.6
-11/-13	.0	.0	.0	.7	2.3	3.5	1.9	2.1	.7	.2	.2	.0	.2	.0	.0	67	.0	11.8
-14/-16	.0	.0	.2	.2	2.5	3.2	2.1	.9	.5	.0	.2	.0	.0	.0	.0	55	.0	9.7
-17/-19	.0	.0	.4	1.1	1.6	1.2	.4	.2	.0	.2	.0	.0	.0	.0	.0	28	.0	4.9
-20/-22	.0	.4	.4	.9	2.1	1.8	.2	.0	.2	.0	.0	.0	.0	.0	.0	33	.0	5.8
-23/-25	.5	.0	.0	.7	.5	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	15	.2	2.5
-26/-30	.0	.4	.7	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.2	2.1
<-30	.0	.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	1.2
TOTAL	3	6	12	32	60	92	73	77	76	53	61	11	9	2	1	568	7	561
PCT	.5	1.1	2.1	5.6	10.6	16.2	12.9	13.6	13.4	9.3	10.7	1.9	1.6	.4	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	1.4	.0	.0	.0	.0	2.2	.4	.5	.0	.0	.0	.0	.8
1-2	.0	.8	.8	.0	.0	.0	1.6	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.6	2.1	1.3	.0	.0	4.0	.0	.1	1.5	.4	.0	.0	2.0
5-6	.0	.3	.9	1.6	.3	.0	3.1	.0	.1	.4	1.6	.0	.0	2.1
7	.0	.4	.3	.0	.0	.0	.7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.3	.4	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.3	.0	.7	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.4	.0	.7	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.4	4.4	4.0	.9	.0	13.5	.4	.8	2.5	2.1	.1	.0	5.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.7	1.1	.0	.0	.0	1.8	.0	.4	.1	.0	.0	.0	.5
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.4	.4	.4	.0	.0	1.1
5-6	.0	.3	.4	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.9	.0	.0	.0	2.8	.0	2.4	.5	.4	.0	.0	3.2

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	1.0	1.7	.0	.0	.0	2.7	.0	1.6	2.4	.0	.0	.0	4.0
3-4	.0	.4	1.4	.0	.0	.0	1.8	.0	.4	1.7	1.3	.0	.0	3.6
5-6	.0	.4	.6	.3	.0	.0	1.2	.0	.0	1.1	.5	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.4	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	3.7	.7	.0	.0	7.2	.1	3.0	6.3	2.4	.0	.0	11.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	2.1	.0	.0	.0	.0	2.7	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	2.2	1.7	.0	.0	.0	3.9	.0	2.4	2.9	.0	.0	.0	5.7	
3-4	.0	1.4	5.3	1.4	.0	.0	8.1	.0	.2	3.9	2.5	.0	.0	6.6	
5-6	.0	.0	2.5	.7	.0	.0	3.1	.0	.0	4.7	1.4	.5	.0	6.6	
7	.0	.3	.7	.8	.7	.0	2.4	.0	.8	1.6	1.5	.8	.0	4.7	
8-9	.0	.4	.3	.4	.0	.0	1.0	.0	.0	1.3	.8	1.1	.0	3.2	
10-11	.0	.0	.4	.3	.0	.0	.7	.0	.0	.4	.5	1.1	.0	2.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.3	10.8	3.5	.7	.0	21.9	.4	3.8	14.8	7.5	4.3	.4	31.1	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.5	7.9	.0	.0	.0	.0	12.5	
1-2	.4	9.1	10.9	.0	.0	.0	20.4	
3-4	.0	3.4	16.6	7.5	.0	.0	27.5	
5-6	.0	1.1	10.6	6.0	.8	.0	18.5	
7	.0	1.5	3.8	2.6	1.5	.0	9.4	
8-9	.0	.4	2.3	1.5	1.1	.0	5.3	
10-11	.0	.0	.8	1.5	1.5	.0	3.8	
12	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.0	.8	.4	.4	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.4	.0	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-43	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	23.4	44.9	20.4	6.0	.4	100.0	265

PERIOD: (OVER-ALL) 1963-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	7.9	13.6	7.6	3.1	1.4	.8	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
6-7	.0	1.4	3.4	8.5	4.0	4.0	2.3	.6	.8	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	90	7
8-9	.0	.0	.8	.8	2.5	.6	1.4	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
10-11	.0	2.5	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
12-13	.0	.0	1.4	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	4.2	5.1	7.6	5.1	2.5	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
TOTAL	18	60	95	79	43	23	20	6	7	1	0	0	2	0	0	0	0	0	0	354	5
PCT	5.1	16.9	26.8	22.3	12.1	6.5	5.6	1.7	2.0	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1939-1973AREA 0018 TATAR STRAIT S
47.0N 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.5	.7	.0	.0	28.9	.0	.0	29.8	2.3	.0	3.4	.0	.0	.9	63.6
NE	4.1	.0	.0	.0	44.3	.0	.0	44.3	3.3	.0	6.8	.0	.0	.0	45.9
E	5.0	.0	.0	.0	37.5	.0	.0	42.5	3.8	.0	.0	.0	5.0	.0	48.8
SE	14.8	.0	.0	.0	29.6	.0	.0	44.4	7.4	.0	.0	.0	.0	.0	48.1
S	.0	.0	.0	.0	23.1	.0	.0	23.1	11.9	.0	5.8	.0	.0	.0	59.6
SW	.0	.0	.7	.0	11.5	.0	.0	12.2	6.1	.0	.7	.0	.0	.0	81.1
W	.0	.0	1.1	.0	20.5	.0	.0	21.6	.0	.0	.0	.0	1.5	.0	76.9
NW	.0	.2	.0	.0	27.9	.0	.0	27.9	.9	.0	3.1	.0	.0	.0	68.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	83.3
TOT PCT	1.5	.3	.3	.0	26.6	.0	.0	27.6	2.5	.0	2.3	.0	.5	.3	66.6
TOT OBS:	395														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.0	1.0	1.0	.0	25.5	.0	.0	26.5	2.9	.0	5.9	.0	1.0	1.0	62.7
0600	1.9	.0	.0	.0	27.1	.0	.0	28.0	.0	.0	.9	.0	.0	.0	71.0
1200	.8	.0	.0	.0	28.0	.0	.0	28.8	3.8	.0	.8	.0	1.5	.0	65.2
1800	3.2	.0	1.6	.0	23.8	.0	.0	27.0	3.2	.0	3.2	.0	.0	.0	66.7
TOT PCT	1.5	.2	.5	.0	26.5	.0	.0	27.7	2.5	.0	2.3	.0	.7	.2	66.3
TOT OBS:	404														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.4	5.0	10.5	8.5	3.0	.1		27.6	20.2		29.2	33.0	32.1	37.5	23.1	20.5	27.4	20.7
NE	.3	2.8	2.7	1.0	.3	.8		7.7	18.5		8.7	3.6	6.7	2.5	11.9	3.4	7.1	12.2
E	.0	2.4	2.0	.8	.0	.0		5.2	13.6		2.4	3.6	1.6	5.0	5.9	4.5	13.1	12.2
SE	.3	.6	.6	.1	.0	.0		1.6	11.3		3.1	.0	.0	5.0	.0	3.4	.0	1.2
S	.0	.8	.8	.4	.0	.0		2.1	14.0		2.4	1.8	2.8	1.3	2.5	3.4	.0	.0
SW	.3	2.2	4.4	.8	.5	.0		8.3	15.4		4.5	12.5	6.3	6.3	10.3	10.2	8.3	11.0
W	.3	4.6	10.0	2.8	.5	.0		18.2	15.7		24.3	8.9	21.4	10.0	19.4	18.2	29.8	8.5
NW	.1	8.3	12.6	5.3	1.6	.1		28.1	17.0		25.3	26.6	24.2	32.5	24.4	36.4	14.3	34.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		.0	.0	4.8	.0	2.5	.0	.0	.0
TOT OBS	11	104	170	77	23	4	389		17.1		72	28	63	40	80	44	21	41
TOT PCT	2.8	26.7	43.7	19.8	5.9	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	2.4	8.2	10.7	5.6	.6		27.6	20.2		30.3	34.2	22.2	23.0	
NE	1.2	3.5	1.3	.9	.8		7.7	18.5		7.3	5.1	8.9	10.5	
E	1.6	2.0	1.0	.6	.0		5.2	13.6		2.8	2.9	5.4	12.5	
SE	.5	.4	.6	.1	.0		1.6	11.3		2.3	1.9	1.2	.8	
S	.3	1.1	.7	.0	.0		2.1	14.0		2.3	2.2	2.8	.0	
SW	1.0	4.0	2.4	.8	.0		8.3	15.4		6.8	6.3	10.3	10.1	
W	2.3	8.3	6.4	1.2	.0		18.2	15.7		20.0	17.0	19.0	15.7	
NW	1.5	12.4	9.3	3.5	.4		28.1	17.0		28.5	27.4	28.6	27.4	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	1.3						1.3	.0		.0	2.9	1.8	.0	
TOT OBS	47	159	127	49	7	389		17.1		100	103	124	62	
TOT PCT	12.1	40.9	32.6	12.6	1.8		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1933-1973

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47.8N 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	.0	2.0	29.0	41.0	22.0	5.0	1.0	17.5	100.0	100
0600Z	2.9	1.0	25.2	41.7	22.3	5.8	1.0	17.3	100.0	103
1200Z	1.6	.8	22.6	48.4	16.9	8.1	1.6	17.8	100.0	124
1800Z	.0	3.2	33.9	41.9	17.7	3.2	.0	14.8	100.0	62
TOT	5	6	104	170	77	23	4	17.1		389
PCT	1.3	1.5	26.7	43.7	19.8	5.9	1.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.7	2.1	8.4	11.7		5.7
NE	1.0	.5	2.6	4.1		6.1
E	.4	.3	.4	2.9		6.7
SE	.0	.4	.0	1.1		6.8
S	1.5	.4	.3	.9		3.6
SW	1.5	1.0	2.4	3.5		5.5
W	4.5	2.1	7.3	5.5		5.1
NW	6.4	1.9	7.3	9.4		5.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	1.3		5.8
TOT OBS	49	20	67	92	228	5.5
TOT PCT	21.5	8.8	29.4	40.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.9	.3	.3	.4	5.4	6.7	1.0	.0	.4	.9	8.6	
NE	.2	.0	.4	.0	2.7	2.4	.4	.0	.0	.0	1.5	
E	1.6	.0	.0	.0	.3	.9	.0	.4	.0	.0	.8	
SE	.1	.0	.0	.0	.5	.0	.0	.4	.0	.0	.4	
S	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	2.4	
SW	.2	.0	.4	.3	1.4	2.0	.0	.4	.0	.0	3.4	
W	.7	.0	.0	.0	3.7	4.8	1.8	.3	.0	.0	8.1	
NW	3.3	.1	.1	.4	3.4	6.5	2.1	.5	.0	.0	8.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.4	
TOT OBS	23	1	3	4	40	56	12	5	4	2	78	228
TOT PCT	10.1	.4	1.3	1.8	17.5	24.6	5.3	2.2	1.8	.9	34.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>OR >6500	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>OR >5000	2.6	3.9	3.9	3.9	3.9	4.8	4.8	4.8
>OR >3500	4.3	7.8	9.1	9.1	9.1	10.0	10.0	10.0
>OR >2000	17.7	26.8	29.0	29.4	31.6	33.3	33.8	33.8
>OR >1000	21.6	36.4	41.1	44.6	48.9	50.6	51.5	51.5
>OR >800	22.1	37.7	42.9	46.3	50.6	52.4	53.2	53.2
>OR >300	22.5	38.5	43.7	47.2	51.5	53.2	54.5	54.5
>OR >150	22.9	39.0	44.2	48.1	52.4	54.1	55.4	55.4
>OR >0	22.9	40.3	45.3	52.4	60.2	64.1	65.4	65.4
TOTAL	33	93	105	121	139	148	151	151

TOTAL NUMBER OF OBS: 231

PCT FREQ NH <5/8 34.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.1	4.8	6.7	3.2	5.6	6.7	9.5	9.9	31.7	252

PERIOD: (PRIMARY) 1939-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	1.4	1.1	.0	.3	.1	.9	1.5	.0	.0	5.8	
	NO PCP	.2	.0	.0	.0	.0	.3	.0	.1	.0	.3	.8	
	TOT %	.6	1.4	1.1	.0	.3	.4	.9	1.6	.0	.3	6.6	
1/2<1	PCP	7.7	.5	.0	.0	.0	.9	1.3	2.3	.0	.0	7.3	
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.9	.5	.0	.0	.0	.9	1.3	2.3	.0	.0	7.6	
1<2	PCP	1.8	1.0	.5	.1	.3	.3	1.0	1.6	.0	.0	6.6	
	NO PCP	.5	.0	.0	.1	.4	.1	.0	.0	.0	.0	1.0	
	TOT %	2.3	1.0	.5	.2	.6	.3	1.0	1.6	.0	.0	7.6	
2<5	PCP	1.5	.0	.0	.4	.3	.7	.2	1.0	.0	.0	3.5	
	NO PCP	.3	.5	.0	.0	.0	.3	.5	1.0	.0	.0	2.5	
	TOT %	1.8	.5	.0	.4	.3	.4	.7	2.0	.0	.0	6.1	
5<10	PCP	2.1	.5	.5	.3	.0	.1	.2	.6	.0	.0	4.3	
	NO PCP	4.2	1.3	1.3	.1	.4	1.9	2.4	4.6	.0	.0	16.2	
	TOT %	6.3	1.8	1.8	.4	.4	2.0	2.6	5.2	.0	.0	20.5	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	NO PCP	14.1	2.5	1.6	.8	1.7	5.7	10.4	13.4	.0	1.3	51.5	
	TOT %	14.1	2.5	1.6	.8	1.7	5.7	10.4	13.6	.0	1.3	51.8	
TOT OBS													396
TOT PCT		28.0	7.7	5.1	1.7	3.3	9.3	16.9	26.5	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.4	.0	.0	.0	.0	.3	.0	.0	.8	
	11-21	.0	.0	.5	.0	.0	.0	.6	.7	.0	.0	1.8	
	22+	.5	1.3	.3	.0	.3	.1	.4	.3	.0	.0	3.2	
	TOT %	.5	1.4	1.2	.0	.3	.1	1.0	1.3	.0	.0	5.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.0	.5	.0	.0	.8	
	11-21	.2	.3	.0	.0	.0	.0	1.6	.5	.0	.0	2.6	
	22+	2.0	.3	.0	.0	.0	.5	.0	1.1	.0	.0	3.9	
	TOT %	2.5	.5	.0	.0	.0	.5	1.6	2.2	.0	.0	7.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	4-10	.0	.4	.4	.3	.3	.0	.3	.3	.0	.0	1.8	
	11-21	.5	.5	.3	.0	.0	.0	.3	.0	.0	.0	1.6	
	22+	1.4	.0	.0	.0	.0	.3	.3	1.4	.0	.0	3.4	
	TOT %	2.0	.9	.7	.3	.3	.3	1.1	1.7	.0	.0	7.1	
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	4-10	.3	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.3	
	11-21	.3	.8	.3	.4	.3	.2	.6	1.4	.0	.0	4.2	
	22+	1.6	.3	.0	.0	.0	.3	.7	.7	.0	.0	3.4	
	TOT %	2.2	1.1	.3	.4	.3	.5	1.3	3.3	.0	.0	9.2	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.5	.8	.3	.3	.0	.3	.5	2.2	.0	.0	5.8	
	11-21	2.0	.3	.3	.0	.0	1.2	1.6	2.0	.0	.0	7.4	
	22+	1.9	.2	.6	.1	.0	.0	.5	1.4	.0	.0	4.7	
	TOT %	5.5	1.3	1.1	.3	.0	1.4	2.7	5.6	.0	.0	17.9	
10+	0-3	.3	.3	.0	.3	.0	.3	.0	.0	.0	1.3	2.4	
	4-10	3.1	1.5	1.4	.1	.5	7.0	3.8	4.2	.0	.0	16.6	
	11-21	7.0	.9	.5	.3	.6	3.2	5.1	8.2	.0	.0	25.5	
	22+	4.3	.0	.0	.0	.2	.2	1.5	2.0	.0	.0	8.2	
	TOT %	14.6	2.6	1.8	.7	1.3	5.6	10.3	14.3	.0	1.3	52.6	
TOT OBS													380
TOT PCT		27.2	7.8	5.1	1.6	2.1	8.4	18.0	28.4	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1933-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	10.4	2.6	1.3	2.6	19.5	23.4	9.1	2.6	1.3	2.6	75.3	24.7	77
06009	6.3	.0	.0	3.2	27.0	28.6	3.2	.0	1.6	.0	69.8	30.2	63
12015	8.2	.0	2.7	.0	5.5	23.3	4.1	4.1	2.7	.0	50.7	49.3	73
18021	21.7	.0	.0	.0	21.7	13.0	.0	.0	.0	.0	56.5	43.5	23
TOT	23	2	3	4	41	56	12	5	4	2	152	84	236
PCT	9.7	.8	1.3	1.7	17.4	23.7	5.1	2.1	1.7	.8	64.4	35.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	7.1	6.3	8.0	12.5	18.8	47.3	112
06009	2.7	7.3	10.0	8.2	18.2	53.6	110
12015	8.1	7.4	8.1	6.6	19.1	50.7	136
18021	7.5	10.4	1.5	7.5	22.4	50.7	67
TOT	27	32	32	37	82	215	425
PCT	6.4	7.5	7.5	8.7	19.3	50.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	10.5	21.1	32.9	43.4	23.7	76
06009	6.3	7.9	25.4	44.4	30.2	63
12015	8.7	21.7	27.5	26.1	46.4	69
18021	21.7	34.8	34.8	21.7	43.5	23
TOT	23	44	68	84	79	231
PCT	10.0	19.0	29.4	36.4	34.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
43/49	.0	.0	.0	.0	.0	8.3	.0	.0	1	8.3
40/44	.0	.0	.0	.0	.0	.0	8.3	8.3	2	16.7
35/39	.0	.0	.0	.0	8.3	8.3	.0	8.3	3	25.0
30/34	.0	.0	.0	.0	.0	.0	.0	8.3	1	8.3
25/29	.0	.0	.0	.0	.0	.0	.0	8.3	1	8.3
20/24	.0	.0	.0	.0	.0	8.3	.0	.0	1	8.3
15/19	.0	.0	8.3	.0	.0	16.7	.0	.0	3	25.0
TOTAL	0	0	1	0	1	5	1	4	12	100.0
PCT	.0	.0	8.3	.0	8.3	41.7	8.3	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0
14.6	.0	.0	.0	.0	.0	.0	2.1	.0	.0
.0	8.3	.0	.0	6.3	2.1	.0	8.3	.0	.0
8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.3	2.1	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0
.0	.0	.0	.0	.0	10.4	6.3	8.3	.0	.0
29.2	10.4	.0	.0	14.6	20.8	6.3	18.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	42	41	37	23	8	2	2	22.8	113
06009	52	45	37	24	9	0	0	23.3	107
12015	45	44	39	23	8	5	-4	23.6	138
18021	51	50	36	21	9	-1	-1	22.1	68
TOT	52	45	37	23	7	1	-4	23.1	426

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	33.3	33.3	.0	33.3	82	3		
06009	.0	25.0	.0	50.0	.0	25.0	74	4		
12015	.0	.0	.0	66.7	.0	33.3	81	3		
18021	.0	.0	.0	.0	50.0	50.0	93	2		
TOT	0	1	1	5	1	4	81	12		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	3	.0	.9
4	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.3	3	.0	.9
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
2	.0	.0	.0	.0	.0	.0	.0	.3	.6	.6	.3	.0	.0	6	.0	1.8
0	.0	.0	.0	.0	.0	.0	.0	3.6	1.5	1.5	.3	.6	.0	25	.0	7.5
-1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	2	.0	.6
-2	.0	.0	.0	.0	.0	.0	.9	1.2	.6	.3	.0	.0	.0	10	.0	3.0
-3	.0	.0	.0	.0	.0	.0	.3	.3	.3	.3	.0	.0	.0	3	.0	.9
-4	.0	.0	.0	.0	.0	.0	.3	1.2	.3	.3	.3	.0	.0	8	.0	2.4
-5	.0	.0	.0	.0	.0	.9	2.4	2.4	.9	.3	.0	.0	.0	23	.0	6.9
-6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	2	.0	.6
-7/-8	.0	.0	.0	.0	.0	1.2	4.2	2.1	.3	.0	.0	.0	.0	26	.3	7.5
-9/-10	.0	.0	.0	.0	.3	1.5	1.2	.6	.0	.0	.0	.0	.0	12	.0	3.6
-11/-13	.0	.0	.0	.0	3.0	5.4	5.4	1.2	.0	.0	.0	.0	.0	30	.0	15.1
-14/-16	.0	.0	.0	.6	5.7	3.0	1.5	1.5	.0	.0	.0	.0	.0	42	.0	12.7
-17/-19	.0	.0	.3	1.5	4.2	1.2	.6	.6	.0	.0	.0	.0	.0	28	.0	8.4
-20/-22	.0	.0	.9	4.2	2.7	1.5	.3	.0	.0	.0	.0	.0	.0	32	.3	9.3
-23/-25	.0	.6	1.5	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	17	.3	4.8
-26/-30	.3	2.4	2.7	.9	.0	.6	.3	.0	.0	.0	.0	.0	.0	26	.6	7.2
<-30	1.5	1.2	.9	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	13	1.2	2.7
TOTAL	6	14	21	29	60	59	52	52	15	15	5	2	2	332	9	323
PCT	1.8	4.2	6.3	8.7	18.1	15.7	17.8	15.7	4.5	4.5	1.5	.6	.6	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.4	.0	.0	.0	1.3	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.3	1.9	.0	.0	.0	3.3	.0	1.0	.5	.0	.0	.0	1.5
3-4	.0	.0	4.0	1.9	.0	.0	5.9	.0	1.0	.8	.5	.0	.0	2.3
5-6	.0	.0	2.2	2.1	.0	.0	4.2	.0	.0	1.0	.6	.0	.0	1.6
7	.0	.0	2.2	4.2	.5	.0	6.9	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	1.0	1.5	.5	.0	2.9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	1.7	1.5	.0	3.2	.0	.0	.0	.0	.0	1.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
13-16	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.5	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.8	11.7	11.4	3.4	.0	28.8	.0	3.0	3.3	1.6	.5	1.5	9.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.3	.4	.0	.0	1.7	.0	.0	1.0	.1	.0	.0	1.1
5-6	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.8	1.3	.0	.0	4.5	.0	.0	1.0	.1	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)AREA 0018 TATAR STRAIT S
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	2.9
3-4	.0	.0	.0	.8	.0	.0	.8	.0	.1	.7	.1	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.1	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.5	.0	.0	1.7
8-9	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.5	.8	.0	.0	1.8	.0	2.5	3.4	.8	.0	.0	6.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.4	.0	.0	.0	1.2	.0	.1	.7	.0	.0	.0	.8	
1-2	.0	1.9	1.8	.0	.0	.0	3.8	.0	3.0	2.1	.0	.0	.0	5.1	
3-4	.0	.4	3.0	.0	.0	.0	3.4	.0	.5	4.6	1.0	.0	.0	6.1	
5-6	.5	.0	1.8	.7	.0	.0	3.0	.0	.5	2.3	2.3	.0	.0	5.1	
7	.0	.5	1.7	1.8	1.0	.0	5.0	.0	.0	1.7	1.2	.0	.0	2.9	
8-9	.0	.0	2.4	.8	.0	.0	3.3	.0	.0	.0	1.0	1.0	.0	1.9	
10-11	.0	.0	.5	.4	.0	.0	.8	.0	.0	.0	.8	1.0	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	1.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.6	11.7	3.8	1.0	.0	20.5	.0	4.1	11.9	6.8	1.9	.0	24.8	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	2.9	1.9	.0	.0	.0	7.3	
1-2	.0	9.7	8.3	.0	.0	.0	18.0	
3-4	.0	1.9	15.5	4.9	.0	.0	22.3	
5-6	.5	1.0	7.8	6.3	.0	.0	15.5	
7	.0	1.0	7.3	7.8	1.5	.0	17.5	
8-9	.0	.5	3.4	4.4	1.5	.0	9.7	
10-11	.0	.0	.5	2.9	2.4	1.0	6.8	
12	.0	.0	.5	.5	.0	.5	1.5	
13-16	.0	.0	.0	.0	1.5	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	17.0	45.1	26.7	6.8	1.5	100.0	206

PERIOD: (OVER-ALL) 1964-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	5.5	6.7	4.3	6.3	1.6	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65
6-7	.0	.8	2.7	6.3	3.9	3.5	4.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
8-9	.0	.0	.0	.8	2.4	.4	1.2	.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
10-11	.0	1.2	.0	1.6	.8	1.2	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
12-13	.0	.0	.0	.4	.4	.4	.4	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
>13	.0	.0	.0	.4	.8	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
INDET	3.1	5.5	9.4	6.7	4.3	4.3	1.2	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95
TOTAL	9	33	49	47	48	29	21	7	11	1	0	0	0	0	0	0	0	0	0	0	253
PCT	3.5	12.9	19.2	18.4	18.8	11.4	8.2	2.7	4.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	3.7	.3	1.8	.0	13.2	.0	.1	18.9	1.8	*	4.9	.2	.5	.2	73.5	
NE	7.3	.6	2.9	.0	12.7	.0	.2	23.2	2.3	.1	5.7	*	.5	.2	68.1	
E	6.7	.2	2.6	.0	11.4	.0	.0	20.8	2.7	.3	4.5	.0	.6	.0	71.1	
SE	7.9	.6	2.8	.0	10.3	.0	.0	21.2	2.3	*	9.0	.1	.4	.1	66.8	
S	4.1	.1	3.1	.0	9.3	.0	.0	16.6	1.5	.1	14.2	.3	.5	.1	66.6	
SW	2.2	.1	1.0	.0	3.5	.4	.3	7.4	1.0	.2	12.3	.3	.2	.1	78.5	
W	2.0	.0	.9	.0	3.7	.0	.0	6.6	1.8	.1	6.3	.4	.3	.1	84.6	
NW	2.8	.1	1.5	*	7.6	*	.1	12.0	1.5	.2	7.4	.0	.2	*	78.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3	.0	2.7	.0	.3	.0	.0	5.3	1.7	.0	10.5	.5	.9	.8	80.3	
TOT PCT	4.0	.2	1.8	*	9.3	*	.1	15.3	1.6	.1	9.4	.2	.4	.1	72.8	
TOT OBS:	8499															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.1	.1	1.8	.0	8.6	*	.1	13.6	2.3	.1	10.4	.4	.4	.2	72.6
06009	3.7	.2	1.5	.0	8.9	.0	*	14.2	1.4	.1	9.4	.4	.5	.1	74.0
12015	4.8	.2	2.1	.0	9.4	.1	*	16.5	1.8	.2	8.1	.2	.5	.2	72.5
18021	4.3	.4	1.8	.1	10.5	.0	.1	17.0	1.1	.1	10.0	.2	.2	*	71.5
TOT PCT	4.0	.2	1.8	*	9.2	*	.1	15.3	1.7	.1	9.4	.3	.4	.1	72.7
TOT OBS:	8798														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	5.9	8.6	5.2	1.5	.1		22.3	15.5		22.5	26.2	22.7	25.1	21.3	20.2	20.4	22.3
NE	.6	3.9	3.6	1.2	.3	.1		9.7	13.9		10.1	9.1	10.0	8.7	9.7	7.2	10.6	10.9
E	.7	3.5	2.5	.8	.1	*		7.5	11.7		6.5	5.6	5.8	7.5	7.7	9.6	6.9	11.1
SE	.9	4.3	2.1	.4	*	*		7.7	9.9		6.1	6.4	6.0	8.9	6.5	11.3	8.3	9.5
S	1.2	7.3	6.4	1.3	*	*		16.3	12.1		15.4	16.9	17.3	15.3	17.2	17.0	15.1	14.6
SW	.8	4.8	4.5	1.1	.1	.0		11.4	12.1		10.1	14.1	12.5	13.1	9.8	11.6	9.6	10.9
W	.4	3.1	3.2	1.3	.2	*		8.1	11.6		10.6	8.0	8.2	7.0	8.3	6.8	9.2	5.8
NW	.5	4.4	5.9	2.2	.5	.1		13.6	12.9		14.1	12.2	12.3	11.9	13.6	13.0	16.2	12.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0		4.6	1.5	5.1	1.8	5.7	1.4	3.6	2.0
TOT OBS:							8096		13.2		1330	703	1263	844	1372	1045	701	838
TOT PCT	9.7	37.1	36.8	13.4	2.7	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.7	7.7	7.3	2.9	.6		22.3	15.5	23.5	23.5	20.9	21.1
NE	2.4	4.2	2.3	.6	.2		9.7	12.9	9.7	9.3	9.5	10.7
E	2.4	3.2	1.5	.3	*		7.5	11.7	6.2	6.3	8.5	9.4
SE	3.1	3.6	.8	.1	*		7.7	9.9	6.2	7.1	8.5	8.9
S	4.4	8.4	3.1	.3	*		16.3	12.1	16.1	16.6	17.0	14.9
SW	2.8	5.7	2.5	.4	*		11.4	12.1	11.5	12.9	10.5	10.2
W	1.8	3.7	2.0	.5	*		8.1	11.6	9.6	8.0	7.6	7.2
NW	2.2	6.0	3.9	1.3	.2		13.6	12.9	13.6	12.3	13.5	14.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	3.5	3.8	3.9	2.7
TOT OBS						8096		13.2	2033	2107	2417	1339
TOT PCT	26.4	42.5	23.5	6.5	1.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.5	5.4	36.0	38.0	14.4	2.3	.4	13.5	100.0	2033
0600Z	3.8	6.4	33.5	37.7	15.2	3.2	.4	13.7	100.0	2107
1200Z	3.9	6.4	38.7	36.0	12.0	2.7	.3	12.8	100.0	2417
1800Z	2.7	6.3	41.2	34.8	12.5	2.4	.1	12.6	100.0	1939
TOT								13.2		8096
PCT	3.5	6.1	37.1	36.8	13.4	2.7	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.2	2.1	7.1	7.8		5.6
NE	1.8	.8	2.3	4.6		5.9
E	1.0	.6	1.7	3.1		5.9
SE	1.1	.5	1.4	3.6		5.9
S	3.8	1.5	3.5	7.4		5.2
SW	3.7	1.2	2.6	3.4		4.6
W	3.6	1.1	3.0	1.6		4.1
NW	5.1	1.9	4.1	3.4		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.8	.5	1.0	2.0		4.2
TOT OBS					4825	5.1
TOT PCT	26.1	10.2	26.7	37.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
1.4	.1	.3	.8	3.3	5.4	1.3	.2	.2	.4	7.6	
.6	*	.1	.4	1.7	2.6	.5	.1	.1	.1	3.3	
.4	*	.1	.3	1.1	1.5	.4	.1	.1	.1	2.2	
1.0	*	.1	.3	1.1	1.4	.4	.1	.1	.2	1.9	
2.9	.2	.3	.5	1.7	2.8	.8	.2	.2	.3	6.3	
1.1	*	.1	.3	1.1	1.8	.4	.2	.2	.1	5.7	
.3	*	*	.1	.9	1.5	.6	.2	.1	.1	5.5	
.8	*	.1	.4	1.7	2.6	.8	.1	.1	.1	7.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.8	.1	*	.1	.5	.7	.2	*	.1	.1	2.6	
9.4	.5	1.2	3.3	13.0	20.3	5.4	1.2	1.2	1.6	42.9	4825
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.1	2.7	2.8	2.8	2.8	2.8	2.8	2.8
= OR >5000	2.8	3.7	3.9	3.9	4.0	4.1	4.1	4.1
= OR >3500	6.4	8.7	9.3	9.3	9.5	9.6	9.6	9.6
= OR >2000	17.6	25.3	27.7	28.5	29.3	29.8	30.0	30.0
= OR >1000	23.1	34.7	38.9	40.4	41.8	42.6	42.9	42.9
= OR >600	24.1	36.8	41.7	43.4	44.9	45.8	46.2	46.2
= OR >300	24.5	37.5	42.6	44.4	46.0	46.9	47.3	47.3
= OR >150	24.8	37.9	43.0	44.9	46.5	47.4	47.8	47.9
= OR > 0	25.0	39.0	45.2	48.0	50.5	53.3	56.6	57.2

TOTAL NUMBER OF OBS: 4990

PCT FREQ NH <5/8: 42.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.0	5.0	9.2	5.1	4.7	5.9	8.4	8.6	26.3	8.7	5277

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1970-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.8	.4	.2	.2	.2	.1	.1	.3	.0	.0	2.2	
	NO PCP	.3	.3	.2	.3	2.2	1.1	.1	.2	.0	.4	5.3	
	TOT %	1.1	.8	.4	.7	2.3	1.1	.2	.5	.0	.4	7.6	
1/2<1	PCP	.9	.4	.2	.1	.2	.1	.1	.4	.0	*	2.4	
	NO PCP	.1	.1	*	.1	.3	.1	*	.1	.0	.1	.9	
	TOT %	1.0	.4	.2	.2	.5	.2	.2	.5	.0	.1	3.3	
1<2	PCP	.9	.3	.2	.1	.3	.1	.2	.4	.0	*	2.6	
	NO PCP	.2	.1	.1	.1	.4	.1	*	*	.0	*	1.1	
	TOT %	1.1	.4	.3	.3	.7	.3	.2	.4	.0	.1	3.7	
2<5	PCP	1.4	.6	.4	.4	.5	.2	.1	.5	.0	.1	4.1	
	NO PCP	.6	.3	.2	.3	.9	.4	.2	.3	.0	.1	3.2	
	TOT %	2.0	.8	.6	.7	1.4	.5	.3	.8	.0	.2	7.4	
5<10	PCP	.9	.4	.3	.4	.4	.2	.1	.3	.0	.1	3.2	
	NO PCP	3.8	1.8	1.4	1.4	3.0	1.9	1.2	2.4	.0	.5	17.4	
	TOT %	4.6	2.2	1.8	1.7	3.5	2.1	1.3	2.7	.0	.6	20.5	
10+	PCP	.2	.2	.1	.1	.1	*	*	.2	.0	*	1.0	
	NO PCP	12.0	4.9	4.0	4.0	7.6	6.9	6.1	8.5	.0	2.6	56.6	
	TOT %	12.2	5.0	4.1	4.1	7.7	7.0	6.2	8.6	.0	2.6	57.5	
TOT OBS													8475
TOT PCT		22.0	9.7	7.5	7.7	16.0	11.2	8.3	13.6	.0	4.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.2	.1	.1	*	.0	.4	1.1	
	4-10	.3	.3	.1	.3	1.1	.5	.1	.1	.0		2.7	
	11-21	.3	.1	.1	.2	.9	.5	.1	.2	.0		2.4	
	22+	.6	.3	.1	.1	.1	*	*	.1	.0		1.4	
	TOT %	1.2	.7	.4	.7	2.3	1.1	.2	.4	.0	.4	7.5	
1/2<1	0-3	*	*	*	*	*	*	.0	*	.0	.1	.2	
	4-10	.1	.1	.1	.1	.2	.1	*	.1	.0		.8	
	11-21	.3	.1	.1	.1	.2	.1	.2	.2	.0		1.2	
	22+	.6	.2	*	*	*	.1	.0	.2	.0		1.2	
	TOT %	1.0	.5	.2	.2	.5	.3	.2	.5	.0	.1	3.5	
1<2	0-3	*	.0	*	*	.1	.0	*	.0	.0	*	.2	
	4-10	.2	.1	.1	.2	.4	.2	.1	.1	.0		1.3	
	11-21	.3	.1	.2	*	.3	.1	.1	.1	.0		1.2	
	22+	.7	.2	.1	*	.1	.1	.1	.3	.0		1.6	
	TOT %	1.2	.5	.4	.3	.8	.4	.3	.5	.0	*	4.4	
2<5	0-3	.1	*	*	.1	.1	.1	*	.1	.0	.1	.7	
	4-10	.5	.4	.4	.5	.8	.4	.1	.4	.0		3.5	
	11-21	1.1	.4	.3	.3	.8	.4	.1	.5	.0		3.8	
	22+	1.1	.2	.1	.1	.2	.1	.1	.3	.0		2.2	
	TOT %	2.7	1.0	.8	.9	2.0	1.0	.4	1.3	.0	.1	10.3	
5<10	0-3	.1	.1	.1	.1	.2	.1	.1	.1	.0	.6	1.6	
	4-10	.9	.8	.7	.8	1.4	.8	.4	.8	.0		6.7	
	11-21	1.7	.8	.6	.6	1.4	1.0	.5	1.2	.0		7.6	
	22+	1.6	.4	.3	.1	.3	.2	.3	.6	.0		3.9	
	TOT %	4.4	2.2	1.7	1.7	3.3	2.1	1.2	2.7	.0	.6	19.8	
10+	0-3	.6	.4	.4	.5	.6	.5	.2	.3	.0	2.3	5.9	
	4-10	4.0	2.0	2.0	2.4	3.5	2.9	2.4	2.9	.0		22.2	
	11-21	5.0	2.0	1.3	.9	2.7	2.5	2.3	3.8	.0		20.4	
	22+	2.1	.4	.3	.1	.5	.7	.9	1.1	.0		6.1	
	TOT %	11.7	4.8	4.0	3.9	7.2	6.5	5.8	8.1	.0	2.3	54.5	
TOT OBS													7927
TOT PCT		22.3	9.7	7.5	7.7	16.2	11.3	8.1	13.6	.0	3.5	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.9	.4	1.3	3.5	13.4	20.6	6.3	1.3	1.2	1.8	58.6	41.4	1599
06009	7.5	.6	.9	3.9	14.7	22.8	5.9	1.4	1.2	1.8	60.8	39.2	1395
12015	10.1	.6	1.3	2.5	10.2	17.7	4.6	1.5	1.1	1.6	51.3	48.7	1411
18021	12.9	.4	.8	2.7	12.2	16.8	3.8	.3	.8	1.0	51.8	48.2	701
TOT													5106
PCT	9.3	.5	1.1	3.2	12.8	20.0	5.4	1.2	1.1	1.6	56.5	43.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.9	3.0	4.2	9.1	18.0	57.9	2363
06009	6.8	3.1	4.9	9.0	17.9	58.3	2353
12015	7.8	3.6	4.2	11.0	22.6	50.8	2791
18021	8.6	4.6	3.9	10.4	20.0	52.5	1698
TOT							9205
PCT	7.6	3.5	4.3	9.9	19.7	54.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.9	13.9	24.2	36.8	39.0	1567
06009	7.6	11.0	22.2	40.0	37.8	1378
12015	10.6	15.7	24.8	29.4	45.8	1367
18021	13.4	18.6	27.5	27.4	45.1	678
TOT						4990
PCT	9.5	14.2	24.1	34.7	41.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.2	.0	.0	.0	.0	.0	.2	
70/74	.0	.0	.4	.0	.0	.3	.4	.0	1.1	
65/69	.0	.0	.4	.0	.0	.4	1.2	.7	2.7	
60/64	.0	.4	.0	.0	.1	1.7	1.2	3.2	6.7	
55/59	.0	.1	1.0	.3	.8	1.5	3.8	3.6	11.1	
50/54	.0	.2	.6	.8	.0	2.9	2.2	5.0	11.7	
45/49	.0	.2	.0	.6	1.4	3.0	1.4	2.9	9.5	
40/44	.0	.0	.0	1.5	.2	1.2	2.0	4.1	9.1	
35/39	.0	.0	.0	.5	2.2	1.9	1.3	3.6	9.5	
30/34	.0	.0	.0	.9	.4	.8	.8	3.1	6.0	
25/29	.0	.1	.4	.2	2.3	1.1	1.5	2.3	8.1	
20/24	.0	.0	.0	.4	.4	2.9	1.7	1.5	6.9	
15/19	.0	.0	.8	2.1	1.8	4.0	3.1	.7	12.5	
10/14	.0	.0	.0	.0	.1	1.4	1.4	.4	3.3	
5/9	.0	.0	.0	.0	.0	.1	1.5	.2	1.8	
TOTAL									641	100.0
PCT	.0	1.0	3.3	7.8	10.0	22.9	23.5	31.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
70/74	.2	.1	.0	.0	.0	.3	.4	.0	.0	.2
65/69	.3	.1	.0	.0	1.5	.8	.0	.0	.0	.0
60/64	.0	.6	.0	1.0	3.0	.7	1.0	.0	.0	.3
55/59	2.3	.8	1.3	1.6	2.2	1.0	.4	.7	.0	.8
50/54	1.8	1.6	1.2	1.5	1.9	.8	1.2	1.2	.0	.6
45/49	.7	.8	.6	1.2	2.5	1.1	1.1	.5	.0	.9
40/44	3.2	.9	.8	.2	1.2	.2	1.5	1.1	.0	.1
35/39	1.1	1.2	.6	.4	2.1	1.6	1.2	.9	.0	.3
30/34	1.4	.6	.7	.4	1.3	.4	.2	1.0	.0	.1
25/29	2.9	.8	.5	.1	.2	.9	.9	1.6	.0	.0
20/24	1.3	.8	.6	.1	.1	.8	.5	2.5	.0	.2
15/19	3.4	2.2	.6	.0	.8	1.3	1.3	3.4	.0	.2
10/14	1.8	.1	.1	.0	.1	.0	.1	1.1	.0	.1
5/9	1.0	.1	.0	.0	.0	.0	.0	.7	.0	.0
TOTAL	21.3	10.6	6.9	6.5	16.2	10.2	9.7	14.7	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	57	51	40	29	23	-8	43.1	2253
06009	83	58	52	41	30	24	0	44.6	2212
12015	84	55	50	39	29	23	-4	42.4	2776
18021	82	54	48	38	27	22	-8	42.3	1707
TOT	84	57	51	40	29	23	-8	43.1	9148

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	15.7	13.8	22.7	23.5	24.4	79	175
06009	.0	11.9	9.4	28.9	21.9	27.9	79	187
12015	.0	11.1	5.0	24.4	22.0	37.5	82	156
18021	.0	8.3	9.4	15.8	29.4	37.1	84	127
TOT	0	65	55	130	186	204	81	645

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PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974AREA 0018 TATAR STRAIT S
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	M FUG	WQ FDG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	.1	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	.2	1.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	.2	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	232	.5	2.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	.2	1.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	362	.8	3.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	512	.9	4.9
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	.4	1.9
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	785	1.8	7.2
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255	.5	2.4
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	931	1.3	9.6
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	.3	2.3
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	626	.6	7.1
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	.2	1.7
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	402	.2	5.0
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	338	.2	4.6
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	.0	1.6
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	349	.1	5.1
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	249	.1	3.7
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	395	.1	6.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	291	.1	5.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	.1	4.3
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	.0	3.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	.1	2.2
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	.1	1.7
<-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	.1	.7
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7517		
PCT	.7	1.7	3.1	4.3	5.3	5.9	8.3	7.2	5.4	7.7	7.0	9.1	6.9	7.0	7.2	8.3	3.2	1.2	.4	.1	.1	100.0	9.3	90.7

PERIOD: (OVER-ALL) 1953-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.8	.2	.0	.0	.0	2.6	<1	.2	1.1	.1	.0	.0	.0	1.4
1-2	.0	2.5	1.9	.0	.0	.0	4.4	1-2	.0	1.2	1.2	.0	.0	.0	2.4
3-4	.0	.7	3.3	1.0	.0	.0	5.0	3-4	.0	.5	1.6	.3	.0	.0	2.4
5-6	.0	.1	2.2	1.3	.1	.0	3.7	5-6	.0	.2	.9	.4	.1	.0	1.7
7	.0	.1	.6	1.2	.1	.0	2.1	7	.0	.1	.5	.2	.1	.0	.8
8-9	.0	.0	.6	.5	.1	.0	1.3	8-9	.0	.0	.2	.2	.1	.0	.5
10-11	.0	.0	.2	.7	.2	.0	1.1	10-11	.0	.0	.1	.1	.1	.1	.4
12	.0	.0	.1	.2	.1	.0	.3	12	.0	.0	.0	.1	.0	.1	.3
13-16	.0	.0	.0	.3	.3	.0	.6	13-16	.0	.0	.0	.1	.2	.0	.2
17-19	.0	.0	.0	.1	.0	.0	.2	17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.3	9.2	5.3	1.1	.0	21.5	TOT PCT	.2	3.2	4.6	1.4	.5	.2	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0	<1	.3	1.0	.1	.0	.0	.0	1.4
1-2	.0	.9	1.0	.0	.0	.0	1.9	1-2	.1	1.4	.9	.0	.0	.0	2.4
3-4	.0	.3	1.2	.2	.0	.0	1.7	3-4	.0	.3	1.0	.2	.0	.0	1.5
5-6	.0	.0	.6	.4	.1	.0	1.1	5-6	.0	.0	.4	.2	.0	.0	.6
7	.0	.1	.2	.1	.0	.0	.4	7	.0	.0	.2	.0	.0	.0	.3
8-9	.0	.0	.1	.1	.0	.0	.2	8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.1	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	3.2	1.0	.1	.1	6.7	TOT PCT	.4	2.9	2.6	.5	.1	.0	6.4

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)AREA 0018 TATAR STRAIT S
47.9N 141.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.9	.2	.0	.0	.0	2.5	.2	1.1	.1	.0	.0	.0	1.4
1-2	.2	2.7	2.5	.0	.0	.0	5.4	.*	2.0	1.8	.0	.0	.0	3.8
3-4	.*	.7	3.2	.5	.0	.0	4.4	.0	.5	1.7	.3	.0	.0	2.5
5-6	.0	.1	2.0	.7	.0	.0	2.8	.0	.1	1.2	.3	.0	.0	1.6
7	.0	.*	.4	.3	.0	.0	.7	.0	.2	.4	.3	.0	.0	.9
8-9	.0	.1	.2	.*	.*	.0	.6	.*	.0	.2	.1	.1	.0	.3
10-11	.0	.*	.*	.2	.*	.0	.2	.0	.0	.1	.1	.*	.0	.1
12	.0	.0	.*	.*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.*	.1	.*	.0	.0	.2	.0	.0	.*	.*	.0	.0	.1
17-19	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.6	8.7	2.0	.1	.0	17.0	.2	3.8	5.9	1.1	.1	.0	10.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.2	.2	.0	.0	.0	1.5	.3	1.1	.1	.0	.0	.0	1.4	
1-2	.*	1.3	.9	.0	.0	.0	2.2	.*	1.5	1.9	.0	.0	.0	3.5	
3-4	.0	.4	1.6	.2	.0	.0	2.2	.0	.4	2.4	.5	.0	.0	3.3	
5-6	.*	.1	.9	.3	.0	.0	1.2	.0	.1	1.4	.5	.*	.0	2.1	
7	.*	.1	.3	.4	.1	.0	.9	.*	.1	.6	.6	.1	.0	1.4	
8-9	.0	.*	.3	.3	.0	.0	.6	.0	.*	.5	.4	.2	.0	1.1	
10-11	.0	.*	.1	.1	.0	.0	.2	.0	.0	.1	.2	.2	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.*	.0	.3	
13-16	.0	.0	.0	.*	.0	.0	.*	.0	.0	.0	.1	.0	.*	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.*	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.1	4.2	1.2	.1	.0	8.8	.3	3.2	7.1	2.4	.6	.*	13.6	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	10.2	1.0	.0	.0	.0	18.2	
1-2	.5	13.5	12.1	.0	.0	.0	26.1	
3-4	.1	3.8	16.0	3.2	.0	.0	23.1	
5-6	.1	.7	9.6	4.0	.3	.0	14.7	
7	.*	.6	3.2	3.2	.4	.0	7.5	
8-9	.*	.2	2.0	2.0	.6	.1	4.8	
10-11	.0	.1	.7	1.4	.5	.1	2.7	
12	.0	.*	.2	.5	.2	.1	1.1	
13-16	.0	.1	.2	.5	.5	.*	1.3	
17-19	.0	.0	.1	.1	.1	.*	.3	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.*	.0	.*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	29.2	45.1	13.0	2.6	.4	100.0	3543

PERIOD: (OVER-ALL) 1956-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	1.2	13.4	11.9	6.5	2.6	.9	.6	.2	.2	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1780	3
6-7	.*	1.7	3.1	4.5	3.1	2.5	1.4	.3	.2	.1	.0	.0	.*	.0	.0	.0	.0	.0	.0	762	6
8-9	.1	.3	.7	1.0	1.2	.7	.6	.3	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	241	7
10-11	.0	1.6	.3	.6	.3	.4	.2	.1	.2	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	170	5
12-13	.0	.0	.7	.3	.1	.2	.*	.*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	6
>13	.0	.0	.0	.5	.1	.1	.*	.*	.3	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	32	9
INDET	10.1	6.6	7.5	4.5	2.1	1.0	.6	.6	.4	.1	.*	.0	.*	.0	.0	.0	.0	.0	.0	1518	3
TOTAL PCT	11.4	23.6	24.2	17.8	9.5	5.9	3.5	1.5	1.8	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	4596	4

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

TABLE 20

AREA 0018 TATAR STRAIT S
47.9N 141.2E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	4	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	8	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.6	.7	.0	.0	.0	11	.1
69/70	.0	.0	.0	.0	.0	.0	.3	2.4	1.0	.0	.0	.0	31	.4
67/68	.0	.0	.0	.0	.0	.1	.9	6.3	2.5	.4	.0	.0	83	1.0
65/66	.0	.0	.0	.0	.0	.3	1.4	11.4	4.7	.4	.0	.0	149	1.8
63/64	.0	.0	.0	.0	.0	.4	7.8	31.5	22.2	.6	.3	.0	525	6.5
61/62	.0	.0	.0	.0	.0	.5	10.6	20.0	19.3	2.1	.2	.0	447	5.5
59/60	.0	.0	.0	.0	.4	.8	10.3	11.3	11.1	3.6	1.0	.0	327	4.0
57/58	.0	.0	.0	.0	.2	1.6	16.3	6.8	13.2	7.8	.5	.0	401	4.9
55/56	.0	.0	.0	.0	.4	3.8	16.5	2.9	8.3	8.4	.7	.0	360	4.4
53/54	.5	.2	.0	.0	.4	6.6	12.7	1.9	6.6	10.5	1.0	.6	353	4.3
51/52	.3	.4	.0	.4	.2	10.3	9.3	.6	3.3	12.1	1.3	.6	334	4.1
49/50	.5	.2	.0	.2	1.7	14.2	6.1	1.0	1.7	14.1	3.8	.8	374	4.6
47/48	1.0	.2	.2	1.0	2.4	16.4	2.9	.2	1.7	9.5	5.9	.6	348	4.3
45/46	1.0	1.0	1.2	1.0	12.5	22.1	2.5	.6	1.5	13.5	18.2	3.1	610	7.5
43/44	1.8	.8	1.4	3.2	13.9	11.8	.7	.6	.7	6.3	13.1	5.0	431	5.3
41/42	1.8	2.1	1.5	5.3	17.1	4.8	.1	.4	.2	3.3	9.3	6.5	352	4.3
39/40	6.8	2.1	2.5	10.1	21.5	3.2	.0	.1	.2	3.1	10.1	10.6	439	5.4
37/38	11.8	6.0	7.1	19.0	16.0	.9	.2	.5	.1	1.1	11.8	17.9	505	6.2
35/36	13.4	12.2	12.5	23.6	7.6	.8	.5	.0	.2	1.7	7.9	15.4	498	6.1
33/34	14.3	13.0	20.6	21.6	4.2	.6	.4	.0	.0	.7	4.1	19.6	517	6.4
31/32	17.3	18.4	21.6	10.7	1.0	.5	.4	.0	.0	.7	6.2	10.4	438	5.4
29/30	15.7	26.9	23.6	3.2	.6	.0	.0	.0	.0	.0	2.5	5.3	437	5.4
27/28	9.7	6.6	7.9	.6	.0	.0	.0	.0	.0	.0	1.3	3.6	141	1.7
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	182	485	606	495	832	963	922	780	881	809	611	337	8123	100.0
MEAN	34.1	32.5	32.9	36.8	40.5	47.6	55.8	61.7	59.2	49.8	41.1	36.6	44.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DBS
JAN	1015	1009	1013	1010	1015	1010	1014	1011	1013	483
FEB	1012	1008	1011	1010	1013	1011	1013	1012	1011	567
MAR	1014	1005	1014	1006	1014	1007	1014	1006	1012	740
APR	1011	1007	1009	1007	1012	1006	1012	1006	1009	671
MAY	1011	1008	1010	1009	1011	1008	1007	1008	1009	931
JUN	1010	1007	1011	1008	1010	1008	1009	1008	1009	1032
JUL	1010	1008	1010	1008	1010	1007	1010	1007	1009	991
AUG	1010	1010	1009	1010	1010	1010	1009	1009	1009	829
SEP	1013	1010	1011	1011	1013	1011	1013	1011	1012	966
OCT	1013	1013	1012	1013	1013	1011	1014	1010	1013	887
NOV	1012	1010	1011	1009	1011	1009	1010	1009	1010	722
DEC	1010	1008	1007	1008	1012	1008	1010	1008	1009	430
ANN	1012	1009	1011	1009	1012	1009	1011	1009	1011	9249
DBS	1704	676	1511	848	1755	1048	872	835		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	985	988	998	1008	1014	1018	1024	1028	1030
FEB	977	986	999	1006	1011	1018	1025	1027	1029
MAR	968	983	996	1006	1013	1018	1024	1029	1030
APR	976	983	991	1003	1010	1016	1026	1029	1030
MAY	976	986	995	1005	1010	1015	1022	1027	1028
JUN	987	991	999	1006	1009	1013	1019	1022	1027
JUL	985	991	1000	1006	1009	1013	1018	1021	1027
AUG	990	996	1000	1006	1009	1013	1019	1022	1025
SEP	982	992	1000	1008	1012	1016	1023	1026	1029
OCT	986	991	998	1008	1013	1018	1023	1027	1029
NOV	978	984	993	1005	1012	1016	1024	1028	1030
DEC	978	987	995	1003	1010	1016	1022	1027	1028

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

JANUARY

AREA 0019 OKMOTSK SEA SW
51.7N 147.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	43.4	.0	.0	43.4	3.1	.0	6.2	.0	.0	.0	47.3
NE	4.9	.0	4.9	.0	31.7	.0	.0	36.6	.0	4.9	.0	.0	.0	.0	58.5
E	.0	.0	.0	.0	22.6	.0	.0	22.6	.0	.0	.0	.0	.0	.0	77.4
SE	.0	.0	16.7	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
S	.0	.0	11.8	.0	8.8	.0	.0	20.6	.0	.0	.0	.0	.0	.0	79.4
SW	.0	.0	9.9	.0	41.2	.0	.0	47.1	.0	.0	.0	.0	.0	.0	52.9
W	2.6	.0	.0	.0	39.9	.0	.0	42.5	5.2	.0	9.8	.0	.0	.0	42.5
NW	.0	.0	.0	.0	47.1	2.1	.0	49.2	2.1	.0	6.9	.0	.0	.0	41.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	50.0
TOT PCT	1.2	.0	1.8	.0	38.1	.6	.0	41.1	2.4	.6	6.0	.0	.0	.0	50.0
TOT OBS:	168														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.0	.0	.0	.0	30.2	1.9	.0	32.1	1.9	1.9	9.4	.0	.0	.0	54.7
06009	.0	.0	4.3	2.1	38.3	.0	.0	44.7	4.3	.0	10.6	.0	.0	.0	40.4
12015	1.8	.0	1.8	.0	33.9	.0	.0	35.7	3.6	.0	5.4	.0	.0	.0	55.4
18021	2.9	.0	2.9	.0	40.0	.0	.0	45.7	.0	.0	5.7	.0	.0	.0	48.6
TOT PCT TOT OBS:	1.0 191	.0	2.1	.5	35.1	.5	.0	38.7	2.6	.5	7.9	.0	.0	.0	50.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	2.9	7.6	6.3	2.3	.6		21.0	21.5	23.2	.0	10.0	.0	26.6	.0	23.3	.0	
NE	.0	3.2	4.7	3.7	.2	.0		11.8	17.1	15.9	.0	17.1	.0	9.6	.0	4.2	.0	
E	.0	.5	2.6	1.3	.6	.0		5.0	21.6	6.1	.0	7.1	.0	5.9	.0	.0	.0	
SE	.0	.2	.2	1.0	.6	.0		1.9	26.0	.6	.0	.0	50.0	2.7	.0	3.3	.0	
S	.0	.6	3.2	1.0	.6	.0		5.5	20.2	2.4	.0	7.1	50.0	4.3	.0	6.7	50.0	
SW	.0	1.3	1.9	.6	.2	.0		4.0	13.6	7.3	.0	1.4	.0	2.1	.0	4.2	50.0	
W	.5	2.6	7.6	8.2	1.1	.6		20.8	21.0	9.1	.0	25.7	.0	24.5	.0	26.7	.0	
NW	.6	3.5	11.6	10.8	2.1	.0		28.7	20.9	35.4	.0	28.6	.0	24.5	.0	28.3	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3							1.3	.0	.0	.0	2.9	.0	.0	.0	3.3	.0	
TOT OBS	6	23	61	51	12	2	155		20.1	41	0	35	1	47	0	30	1	
TOT PCT	3.9	14.8	39.4	32.9	7.7	1.3		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	1.3	5.2	9.4	2.7	2.4			21.0	21.5	23.2	9.7	26.6	22.6		
NE	1.9	4.2	3.9	1.8	.0			11.8	17.1	15.9	16.7	9.6	4.0		
E	.5	1.1	2.1	1.9	.0			5.0	21.6	6.1	6.9	5.9	.0		
SE	.2	.0	1.1	.6	.0			1.9	26.0	.6	1.4	2.7	3.2		
S	.0	1.8	3.1	.6	.0			5.5	20.2	2.4	8.3	4.3	8.1		
SW	1.3	1.5	1.1	.2	.0			4.0	13.6	7.3	1.4	2.1	5.6		
W	1.3	5.5	8.4	5.0	.6			20.8	21.0	9.1	25.0	24.5	25.8		
NW	.6	8.5	15.5	2.6	1.5			28.7	20.9	35.4	27.8	24.5	27.4		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	1.3							1.3	.0	.0	2.8	.0	3.2		
TOT OBS	13	43	69	23	7	155			20.1	41	36	47	31		
TOT PCT	8.4	27.7	44.5	14.8	4.5			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	2.4	7.3	46.3	34.1	9.8	.0	20.8	100.0	41
06009	2.8	.0	11.1	36.1	47.2	2.8	.0	21.0	100.0	36
12115	.0	6.4	23.4	34.0	25.5	8.5	2.1	18.7	100.0	47
18021	3.2	.0	16.1	41.9	25.8	9.7	3.2	20.4	100.0	31
TOT	2	4	23	61	51	12	2	20.1		155
PCT	1.3	2.6	14.8	39.4	32.9	7.7	1.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.3	7.9	8.8		6.7
NE	.7	1.7	3.3	7.2		6.6
E	.0	.0	2.4	1.8		7.0
SE	.0	.0	.2	.9		7.8
S	.0	.7	1.5	3.3		6.8
SW	1.5	.2	.7	3.3		6.0
W	2.2	2.6	7.9	8.8		6.0
NW	1.5	1.7	15.1	11.4		6.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.5	.0		6.0
TOT OBS	8	11	55	62	136	6.4
TOT PCT	5.9	8.1	40.4	45.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
4.4	.0	.0	.0	3.7	7.4	.0	.0	.7	.0	1.8	
3.3	.0	.0	.7	.9	2.6	1.5	.0	.0	.0	3.9	
.0	.0	.6	.0	2.6	1.1	.0	.0	.0	.0	.0	
.0	.0	.2	.0	.2	.7	.0	.0	.0	.0	.0	
.6	.0	.0	.0	.7	2.8	.7	.0	.0	.0	.7	
.9	.0	.0	.0	.0	1.7	.0	.0	.7	.0	2.4	
3.1	.0	.0	1.5	4.8	7.4	.0	.0	.0	.0	4.8	
6.8	.0	.0	.0	9.2	9.6	.0	.0	.0	.0	4.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	
.26	1	1	3	30	46	3	0	2	0	24	136
19.1	.7	.7	2.2	22.1	33.8	2.2	.0	1.5	.0	17.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.7	.7	.7	.7	.7	.7
>5000	.0	.0	.7	.7	.7	.7	.7	.7
>3500	1.4	1.4	2.0	2.0	2.7	2.7	2.7	2.7
>2000	15.6	24.5	30.6	32.7	33.3	34.0	34.7	34.7
>1000	20.4	38.1	49.0	53.7	55.8	57.1	58.5	58.5
>600	21.8	39.5	50.3	56.5	58.5	59.9	61.2	61.2
>300	22.4	40.1	51.0	57.1	59.2	60.5	61.9	61.9
>150	22.4	40.8	51.7	57.8	59.9	61.2	62.6	62.6
>0	22.4	42.9	57.8	69.4	74.8	79.6	83.0	83.7
TOTAL	33	63	85	102	110	117	122	123

TOTAL NUMBER OF OBS: 147

PCT FREQ NH <5/8: 16.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
2.2	1.7	2.2	2.8	5.6	10.7	11.2	11.8	34.3	178

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.6	.0	.0	.5	.2	1.7	1.4	.0	.0	4.2	
	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.8	.0	.0	1.8	
	TOT %	.0	.6	.0	.0	.5	.2	2.7	2.1	.0	.0	6.0	
1/2<1	PCP	.9	.8	.0	.0	.0	.8	2.7	2.1	.0	.0	7.2	
	NO PCP	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.9	1.4	.0	.0	.0	.8	2.7	2.1	.0	.0	7.8	
1<2	PCP	4.7	1.1	.0	.0	.0	.0	1.5	4.2	.0	.0	11.4	
	NO PCP	.0	.0	.0	.0	.0	.0	1.2	1.2	.0	.0	2.4	
	TOT %	4.7	1.1	.0	.0	.0	.0	2.7	5.4	.0	.0	13.9	
2<5	PCP	1.8	1.4	1.1	.0	.0	1.2	3.3	3.9	.0	.0	12.7	
	NO PCP	.6	.0	.0	.0	.0	1.4	1.1	2.4	.0	.0	5.4	
	TOT %	2.4	1.4	1.1	.0	.0	2.6	4.4	6.3	.0	.0	18.1	
5<10	PCP	1.1	.8	.0	.3	.6	.3	.0	1.8	.0	.0	4.8	
	NO PCP	4.3	.8	2.1	1.4	2.4	.6	3.2	4.4	.0	1.2	20.5	
	TOT %	5.6	1.5	2.1	1.7	3.0	.9	3.2	6.2	.0	1.2	25.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	9.9	6.5	1.5	.2	1.7	.8	6.8	5.7	.0	.0	28.9	
	TOT %	9.9	6.5	1.5	.2	1.7	.8	6.8	5.7	.0	.0	28.9	
TOT OBS													166
TOT PCT		19.4	12.3	4.7	1.8	5.1	5.1	22.4	27.9	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.7	.0	.0	.5	.2	.0	.0	.0	.0	1.3	
	22+	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	4.6	
	TOT %	.0	.7	.0	.0	.5	.2	2.3	2.3	.0	.0	6.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.7	.0	.0	.0	.0	.0	1.2	1.5	.0	.0	3.3	
	22+	1.0	.8	.0	.0	.0	.8	1.8	.0	.0	.0	5.3	
	TOT %	1.7	.8	.0	.0	.0	.8	3.0	2.3	.0	.0	8.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	11-21	1.0	.8	.0	.0	.0	.0	1.5	.0	.0	.0	3.3	
	22+	3.6	.2	.0	.0	.0	.0	1.2	3.6	.0	.0	8.6	
	TOT %	4.6	1.0	.0	.0	.0	.0	1.8	5.1	.0	.0	12.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.0	.0	.0	.0	1.3	1.3	1.3	.0	.0	4.6	
	11-21	.7	.8	.5	.0	.0	.7	1.8	1.5	.0	.0	6.0	
	22+	.7	.7	.7	.0	.0	.0	1.2	4.1	.0	.0	7.3	
	TOT %	2.0	1.5	1.2	.0	.0	2.0	4.3	7.0	.0	.0	17.9	
5<10	0-3	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.0	
	4-10	.7	.7	.5	.2	.7	.0	.0	2.0	.0	.0	4.6	
	11-21	1.8	.2	.5	.0	1.7	1.0	1.8	3.0	.0	.0	9.9	
	22+	3.0	.8	1.3	1.7	1.0	.0	1.2	1.0	.0	.0	9.9	
	TOT %	6.1	1.7	2.3	1.8	3.3	1.0	3.0	6.0	.0	1.3	26.5	
10+	0-3	.7	.0	.0	.0	.0	.0	.7	.7	.0	.0	2.0	
	4-10	1.7	2.6	.0	.0	.0	.0	.7	.3	.0	.0	5.3	
	11-21	3.6	2.3	1.7	.2	1.2	.2	3.0	3.1	.0	.0	15.2	
	22+	.5	1.5	.0	.0	.7	.0	2.0	1.3	.0	.0	6.0	
	TOT %	6.5	6.5	1.7	.2	1.8	.2	6.3	5.5	.0	.0	28.5	
TOT OBS													151
TOT PCT		20.9	12.1	5.1	2.0	5.6	4.1	20.7	28.1	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	18.0	.0	2.0	2.0	26.0	34.0	4.0	.0	2.0	.0	88.0	12.0	50
06009	12.8	.0	.0	5.1	33.3	38.5	.0	.0	.0	.0	89.7	10.3	39
12015	18.4	.0	.0	2.6	15.8	28.9	.0	.0	.0	.0	65.8	34.2	38
18021	42.3	3.8	.0	.0	11.5	23.1	3.8	.0	3.8	.0	88.5	11.5	26
TOT	32	1	1	4	35	49	3	0	2	0	127	26	193
PCT	20.9	.7	.7	2.6	22.9	32.0	2.0	.0	1.3	.0	83.0	17.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	5.8	7.7	9.6	15.4	21.2	40.4	52
06009	10.9	2.2	26.1	17.4	23.9	19.6	46
12015	7.4	5.6	9.9	16.7	38.9	22.2	54
18021	5.6	16.7	11.1	16.7	22.2	27.8	36
TOT	14	14	26	31	51	52	188
PCT	7.4	7.4	13.8	16.5	27.1	27.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	16.7	27.1	41.7	50.0	8.3	48
06009	13.2	21.1	57.9	34.2	7.9	38
12015	19.4	19.4	38.9	30.6	30.6	36
18021	44.0	48.0	60.0	32.0	8.0	25
TOT	31	40	71	56	20	147
PCT	21.1	27.2	48.3	38.1	13.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	16.7	33.3	16.7	4	66.7
35/39	.0	.0	.0	16.7	.0	.0	.0	.0	1	16.7
30/34	.0	.0	.0	.0	.0	.0	16.7	.0	1	16.7
TOTAL	0	0	0	1	0	1	3	1	6	100.0
PCT	.0	.0	.0	16.7	.0	16.7	50.0	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
12.5	16.7	.0	.0	.0	20.8	12.5	4.2	.0	.0	.0
.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0
.0	.0	12.5	4.2	.0	.0	.0	.0	.0	.0	.0
12.5	16.7	12.5	4.2	.0	20.8	29.2	4.2	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	43	42	39	21	3	-4	-4	20.2	53
06009	45	44	36	20	1	-4	-4	18.6	45
12015	41	40	35	18	5	1	1	18.4	52
18021	45	44	36	18	-4	-7	-7	18.2	34
TOT	45	43	36	19	1	-4	-7	18.9	184

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	25.0	.0	25.0	25.0	25.0	77	4
06009	.0	.0	.0	.0	100.0	.0	84	1
12015	.0	.0	.0	.0	100.0	.0	84	1
18021	0	1	0	1	3	1	79	6

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
1	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.7	3	.7	1.5
-1	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
-2	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.7	.0	3	.0	2.2
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	2	.0	1.5
-4	.0	.0	.0	.0	.0	.0	4.4	1.5	.0	.7	.0	.0	9	.0	6.6
-5	.0	.0	.0	.0	.0	.7	5.1	1.5	.0	.0	.0	.0	10	.0	7.3
-6	.0	.0	.0	.0	.0	.7	2.2	.7	.0	.0	.0	.0	5	.0	3.6
-7/-8	.0	.0	.0	.0	.0	2.2	3.6	1.5	1.5	.0	.0	.0	12	.7	8.0
-9/-10	.0	.0	.0	.0	.0	4.4	1.5	.0	.0	.0	.0	.0	8	.7	5.1
-11/-13	.0	.0	.0	.0	3.6	5.8	.7	.0	.0	.0	.0	.0	14	.7	9.5
-14/-16	.0	.0	.0	.0	6.6	1.5	.7	.0	.0	.0	.0	.0	12	.7	8.0
-17/-19	.0	.0	.0	.7	2.9	1.5	.0	.0	.0	.0	.0	.0	7	.0	5.1
-20/-22	.0	.7	6.6	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	14	.7	9.5
-23/-25	.0	.7	8.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	9.5
-26/-30	.7	5.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2.2	5.1
<-30	6.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	1.5	5.8
TOTAL	10	10	22	4	20	23	11	7	2	2	1	137	100.0	8.0	92.0
PCT	7.3	7.3	16.1	2.9	14.6	16.8	18.2	8.0	5.1	1.5	1.5	.7			

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.9	.0	.0	.0	1.9	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.9	.7	.0	.0	.0	1.6	.0	1.9	.2	.0	.0	.0	2.1
3-4	.0	.7	3.5	.0	.0	.0	4.2	.0	.9	.2	.0	.0	.0	1.2
5-6	.0	.0	1.4	.9	.0	.0	2.3	.0	.9	.7	1.9	.0	.0	3.5
7	.0	.0	.7	.9	1.6	.0	3.3	.0	.0	.9	.9	.2	.0	2.1
8-9	.9	.0	.0	3.0	1.6	.9	7.5	.0	.0	.9	.5	.0	.0	1.4
10-11	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	1.6	8.2	6.5	3.3	.9	22.4	.0	4.7	3.0	5.4	.2	.0	13.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	3.0	.9	.9	.0	5.4	.0	.2	.0	.9	.9	.0	2.1

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0019 OKHOTSK SEA SW
51.7N 147.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.9	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	1.2	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.2	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	3.5	.9	.9	.0	6.3	.0	.9	2.1	.0	.2	.0	3.3	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.9	.9	.0	.0	.0	.0	1.9	.9	.0	.0	.0	.0	.0	.9		
1-2	.0	.9	.7	.0	.0	.0	1.6	.0	1.9	4.0	.0	.0	.0	5.8		
3-4	.0	.0	2.3	.7	.0	.0	3.0	.0	.2	1.6	1.2	.0	.0	3.0		
5-6	.0	.0	.0	2.8	.0	.0	2.8	.0	.0	4.9	.9	.0	.0	5.8		
7	.0	.0	1.6	1.9	.0	.0	3.5	.0	.0	3.3	1.9	.0	.0	5.1		
8-9	.0	.0	.0	.7	.7	.0	1.4	.0	.0	.0	2.3	.2	.0	2.6		
10-11	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.0	1.2	.0	.0	1.2		
12	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9		
23-25	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9	.0	.9		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.9	1.9	4.7	8.6	1.6	.0	17.8	.9	2.1	13.8	9.3	1.2	.0	27.3	98.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	4.7	.9	.0	.0	.0	10.3	
1-2	.0	5.6	5.6	.0	.0	.0	11.2	
3-4	.0	1.9	11.2	1.9	.0	.0	13.0	
5-6	.0	.9	10.3	6.5	.0	.0	17.8	
7	.0	.0	6.5	6.5	1.9	.0	15.0	
8-9	.9	.0	3.7	6.5	2.8	.9	15.0	
10-11	.0	.0	.0	4.7	.0	.0	4.7	
12	.0	.0	.0	1.9	.0	.0	1.9	
13-16	.0	.0	.0	1.9	2.8	.0	4.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	2.8	.0	.0	2.8	
23-25	.0	.0	.0	.0	1.9	.0	1.9	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	13.1	38.3	32.7	9.3	.9	100.0	107

PERIOD: (OVER-ALL) 1968-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.5	6.3	6.9	4.2	5.6	1.4	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
6-7	.0	.7	2.1	4.2	4.9	1.4	2.8	2.1	2.1	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	31	8
8-9	.0	.0	.7	.0	.7	4.9	.7	2.1	2.8	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	18	10
10-11	.0	.0	.0	.7	1.4	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.7	.7	.7	1.4	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	7	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	4	21
INDEX	4.9	2.1	2.1	4.9	2.8	4.2	1.4	1.4	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	6
TOTAL	7	9	17	25	21	25	9	11	11	2	4	3	0	0	0	0	0	0	0	144	8
PCT	4.9	6.3	11.8	17.4	14.6	17.4	6.3	7.6	7.6	1.4	2.8	2.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

MAY

AREA 0019 OKHOTSK SEA SW
51.6N 147.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	8.4	.0	.0	3.6	.0	12.0	4.8	.0	14.5	.0	.0	.0	68.7
NE	.0	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	41.9	.0	.0	.0	57.0
E	2.4	.0	.0	.0	.0	.0	.0	2.4	5.6	.0	34.1	.0	.0	.0	57.9
SE	3.2	2.5	.0	.0	5.1	.0	.0	8.2	3.8	.0	43.7	2.5	2.5	.0	39.2
S	.0	.0	.0	.0	2.0	.0	2.0	4.1	1.5	2.0	33.7	.0	2.0	.0	58.7
SW	.0	.0	.0	.0	4.2	.0	.0	4.2	8.4	.0	28.4	.0	.0	4.2	54.7
W	5.3	.0	.0	.0	5.3	.0	.0	5.3	.0	.0	34.2	.0	.0	.0	60.5
NW	.0	.0	9.8	.0	.0	.0	.0	9.8	.0	.0	9.8	.0	.0	.0	80.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	3.7	3.7	.0	7.4	.0	.0	48.1	.0	.0	.0	44.4
TOT PCT	1.2	.4	1.6	.0	2.4	.8	.4	5.9	2.7	.4	33.3	.4	.8	.4	56.5
TOT OBS:	255														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.3	.0	3.9	.0	1.3	.0	.0	6.6	2.6	.0	31.6	.0	1.3	.0	57.9
06009	1.4	.0	1.4	.0	1.4	.0	.0	4.2	2.8	.0	26.4	.0	1.4	1.4	63.9
12015	1.3	.0	2.6	.0	2.6	1.3	1.3	9.1	3.9	1.3	31.2	1.3	.0	.0	54.5
18021	.0	1.8	.0	.0	3.6	1.8	.0	5.5	1.8	.0	43.6	.0	.0	.0	49.1
TOT PCT	1.1	.4	2.1	.0	2.1	1.1	.4	6.4	2.9	.4	32.5	.4	.7	.4	56.8
TOT OBS:	280														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.6	5.1	2.0	.0	.0		9.1	16.1	4.9	25.0	7.3	50.0	11.2	37.5	7.8	.0	.0
NE	.0	3.0	4.5	.2	.4	.0		8.1	13.0	8.5	12.5	9.3	.0	6.9	.0	7.8	.0	.0
E	.4	6.0	4.1	2.2	.0	.0		12.7	13.0	14.3	9.4	16.1	.0	8.1	.0	14.4	.0	.0
SE	.8	5.8	8.3	1.0	.0	.0		16.0	13.3	11.2	3.1	22.6	.0	20.0	50.0	8.9	.0	.0
S	.0	5.7	10.1	2.3	.0	.0		18.1	14.8	17.0	.0	16.1	.0	21.5	.0	22.2	.0	.0
SW	.0	2.8	6.3	.5	.0	.0		9.6	14.0	8.0	25.0	8.9	.0	8.8	.0	11.7	.0	.0
W	.0	3.2	2.8	.3	.0	.0		6.4	10.9	8.9	25.0	4.4	.0	5.8	.0	3.9	.0	.0
NW	.0	1.8	4.7	1.9	.8	.0		9.2	18.1	14.7	.0	8.9	.0	8.5	12.5	5.6	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	12.5	.0	6.5	50.0	9.2	.0	17.8	.0	.0
TOT OBS	30	72	110	25	3	0	240		12.7		56	8	62	2	65	2	43	0
TOT PCT	12.5	30.0	45.8	10.4	1.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.6	3.2	3.5	.7	.0		9.1	16.1	7.4	8.6	11.9	7.8	.0
NE	1.1	5.9	.5	.5	.0		8.1	13.0	9.0	9.0	6.7	7.8	.0
E	3.0	5.5	3.4	.7	.0		12.7	13.0	13.7	15.6	7.8	14.4	.0
SE	1.8	9.0	4.9	.4	.0		16.0	13.3	10.2	21.9	20.9	8.9	.0
S	1.1	9.9	7.1	.0	.0		18.1	14.8	14.8	15.6	20.9	22.2	.0
SW	.9	6.3	2.0	.4	.0		9.6	14.0	10.2	8.6	8.6	11.7	.0
W	2.1	4.0	.3	.0	.0		6.4	10.9	10.9	4.3	5.6	3.9	.0
NW	.8	3.8	3.6	.5	.4		9.2	18.1	12.9	8.6	8.6	5.6	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	10.9	7.8	9.0	17.8	.0
TOT OBS	56	114	61	8	1	240		12.7	64	64	67	45	
TOT PCT	23.3	47.5	25.4	3.3	.4		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

MAY

AREA 0019 OKHOTSK SEA SW
51.0N 147.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	10.9	.0	31.3	42.2	12.5	3.1	.0	13.8	100.0	64
0600Z	7.8	3.1	23.4	53.1	10.9	1.6	.0	13.5	100.0	64
1200Z	9.0	1.5	34.3	47.8	7.5	.0	.0	12.1	100.0	67
1800Z	17.8	2.2	31.1	37.8	11.1	.0	.0	10.8	100.0	45
TOT	26	4	72	110	25	3	0	12.7		240
PCT	10.8	1.7	30.0	45.8	10.4	1.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	.0	1.8	3.0		3.0
NE	1.1	.0	1.0	5.6		6.8
E	1.4	.0	1.0	9.9		6.9
SE	2.0	.0	2.1	13.0		6.8
S	2.9	1.0	4.8	10.6		6.2
SW	1.1	.5	.6	5.9		6.4
W	.0	1.0	1.9	4.6		7.1
NW	1.1	.5	1.9	5.4		6.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	1.0	8.5		6.3
TOT OBS	28	7	32	139	200	6.5
TOT PCT	14.0	3.5	16.0	66.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT>NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.5	.0	.0	.4	1.1	1.8	.0	.0	.0	.0	2.4	
.8	.5	.0	1.0	1.9	.5	1.0	.0	.0	.5	1.6	
4.1	.0	.0	.9	1.4	2.5	.5	.0	.5	.5	1.9	
8.0	.0	.0	.6	1.0	2.9	1.1	.0	.0	.5	3.0	
7.0	.0	.0	.5	.0	3.5	3.4	.0	.0	.5	4.4	
3.3	.0	.0	.0	.6	2.1	.0	.5	.0	.0	1.6	
2.8	.0	.5	.0	.9	1.0	.9	.0	.0	.0	1.5	
.6	.0	1.0	1.1	1.1	2.8	.1	.0	.0	.0	2.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3.0	.0	.5	.5	1.0	1.5	.0	.0	.0	.0	3.5	
66	1	4	10	18	37	14	1	1	4	44	
33.0	.5	2.0	5.0	9.0	16.5	7.0	.5	.5	2.0	22.0	200
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >5000	1.9	2.3	2.8	2.8	2.8	2.8	2.8	2.8
= OR >3500	6.9	8.3	9.3	9.3	9.3	9.3	9.3	9.3
= OR >2000	19.0	25.0	27.3	27.3	27.3	27.3	27.3	27.3
= OR >1000	22.2	32.4	36.6	37.0	37.0	37.5	37.5	37.5
= OR >600	22.7	34.7	39.8	41.7	41.7	42.1	43.1	43.1
= OR >300	23.1	36.6	41.7	43.5	43.5	44.0	44.9	44.9
= OR >150	23.1	36.6	42.1	44.0	44.0	44.4	45.4	45.4
= OR >0	23.1	38.0	44.4	47.2	49.1	56.0	73.1	77.3
TOTAL	50	82	96	102	106	121	158	167

TOTAL NUMBER OF OBS: 216

PCT FREQ NH <5/8: 22.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.2	.4	4.3	1.7	2.1	3.0	3.9	6.9	32.2	31.3	233

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

MAY

AREA 0019 UKHOTSK SEA SW
51.6N 147.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.8	
	NO PCP	.8	.9	2.6	4.8	5.6	2.6	1.9	.0	.0	4.4	23.6	
	TOT %	.8	.9	2.6	5.2	6.0	2.6	1.9	.0	.0	4.4	24.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.4	.0	1.2	.0	.0	.4	.0	.0	.4	2.8	
	TOT %	.4	.4	.0	1.2	.0	.0	.4	.0	.0	.4	2.8	
1<2	PCP	1.0	.1	.3	.1	.0	.4	.0	.1	.0	.4	2.4	
	NO PCP	.0	.4	.4	.0	.0	.0	.0	.4	.0	.0	1.2	
	TOT %	1.0	.5	.7	.1	.0	.4	.0	.5	.0	.4	3.6	
2<5	PCP	.0	.0	.0	.8	.4	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.9	1.4	1.5	2.2	.8	.8	1.2	.0	.4	9.2	
	TOT %	.0	.9	1.4	2.3	2.6	.8	.8	1.2	.0	.4	10.4	
5<10	PCP	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	1.2	
	NO PCP	1.1	1.9	3.4	2.9	3.4	2.2	1.1	.8	.0	2.0	18.8	
	TOT %	1.1	1.9	3.4	2.9	3.4	2.2	1.5	1.6	.0	2.0	20.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	4.6	4.0	4.5	3.3	7.6	3.5	2.7	5.8	.0	2.8	38.8	
	TOT %	4.6	4.0	4.5	3.3	7.6	3.5	2.7	5.8	.0	2.8	38.8	
TOT OBS													250
TOT PCT		7.9	8.6	12.6	15.0	19.6	9.5	7.3	9.1	.0	10.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	
	4-10	.4	.0	1.1	1.1	1.7	.0	.4	.0	.0		4.8	
	11-21	.4	.5	1.0	3.6	2.9	2.5	1.2	.0	.0		12.1	
	22+	.0	.0	.8	.5	.3	.1	.0	.0	.0		1.7	
	TOT %	.9	.5	2.8	5.2	5.0	2.6	1.6	.0	.0	4.8	23.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.4	.0	.9	.0	.0	.4	.0	.0		1.7	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	22+	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.4	.4	.0	1.3	.0	.0	.4	.0	.0	.4	3.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.3	.1	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.8	.4	.3	.1	.0	.0	.0	.5	.0		2.2	
	22+	.0	.0	.4	.0	.0	.4	.0	.0	.0		.9	
	TOT %	1.1	.5	.8	.1	.0	.4	.0	.5	.0	.4	3.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.1	.8	.0	.9	.0	.9	.0	.0		2.6	
	11-21	.0	.0	.8	2.4	.8	.9	.0	.9	.0		5.6	
	22+	.0	.4	.0	.1	1.2	.0	.0	.4	.0		2.2	
	TOT %	.0	.5	1.5	2.5	2.8	.9	.9	1.3	.0	.4	10.8	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	
	4-10	.4	1.0	1.2	2.3	.6	1.4	.0	.0	.0		6.9	
	11-21	.3	.5	1.7	.9	2.2	.9	.4	.9	.0		7.8	
	22+	.4	.1	.3	.0	.9	.0	.0	.9	.0		2.6	
	TOT %	1.2	1.6	3.2	3.1	3.7	2.3	.4	1.7	.0	1.7	19.0	
10+	0-3	.4	.0	.4	.9	.0	.0	.0	.0	.0	3.0	4.8	
	4-10	.4	1.1	2.8	1.8	2.7	1.1	1.6	1.8	.0		13.4	
	11-21	2.9	3.1	.4	.9	4.7	2.3	1.3	2.6	.0		18.2	
	22+	1.2	.1	.8	.0	.0	.0	.0	1.4	.0		3.5	
	TOT %	5.0	4.3	4.4	3.6	7.4	3.4	2.9	5.8	.0	3.0	39.8	
TOT OBS													231
TOT PCT		8.5	8.0	12.8	15.8	18.8	9.5	6.3	9.4	.0	10.8	100.0	

MAY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

TABLE 10

AREA 0019 OKHOTSK SEA SW
51.6N 147.7EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	25.8	.0	3.2	4.8	9.7	27.4	4.8	.0	1.6	.0	77.4	22.6	62
06009	23.8	1.6	1.6	3.2	11.1	14.3	9.5	1.6	.0	1.6	68.3	31.7	63
12015	41.8	.0	.0	7.3	7.3	12.7	7.3	.0	.0	5.5	81.8	18.2	55
18021	43.2	.0	2.3	6.8	11.4	13.6	2.3	.0	.0	.0	79.5	20.5	44
TOT	73	1	4	12	22	39	14	1	1	4	171	53	224
PCT	32.6	.4	1.8	5.4	9.8	17.4	6.3	.4	.4	1.8	76.3	23.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	17.6	4.1	5.4	10.8	14.9	47.3	74
06009	22.2	2.8	.0	6.9	26.4	41.7	72
12015	26.7	2.7	5.3	5.3	21.3	38.7	75
18021	30.9	1.8	3.6	16.4	23.6	23.6	55
TOT	66	8	10	26	59	107	276
PCT	23.9	2.9	3.6	9.4	21.4	38.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<30YD	<1	<5	AND 5+		OBS
00003	25.0	28.3	40.0	38.3	21.7	60
06009	24.2	29.0	37.1	35.5	27.4	62
12015	40.4	42.3	53.8	30.8	15.4	52
18021	42.9	50.0	61.9	21.4	16.7	42
TOT	69	78	101	70	45	216
PCT	31.9	36.1	46.8	32.4	20.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
50/54	.0	.0	.0	.0	.0	.0	5.3	5.3	2	10.5
45/49	.0	.0	.0	.0	.0	5.3	.0	.0	1	5.3
40/44	.0	.0	.0	.0	.0	.0	5.3	.0	1	5.3
35/39	.0	.0	.0	.0	.0	.0	5.3	15.8	4	21.1
30/34	.0	.0	.0	.0	.0	.0	5.3	52.6	11	57.9
TOTAL	0	0	0	0	0	1	4	14	19	100.0
PCT	.0	.0	.0	.0	.0	5.3	21.1	73.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	6.6	3.9	.0	.0	.0
45/49	.0	.0	.0	.0	.0	5.3	.0	.0	.0
40/44	.0	.0	.0	.0	.0	.0	5.3	.0	.0
35/39	.0	5.3	5.3	.0	.0	.0	5.3	.0	.0
30/34	5.3	5.3	9.2	18.4	14.5	.0	5.3	.0	.0
TOTAL	5.3	10.5	14.5	18.4	14.5	6.6	14.5	15.8	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	57	56	48	36	30	21	21	37.4	69
06009	50	49	46	36	30	26	26	37.1	64
12015	46	45	44	34	27	20	20	34.7	72
18021	50	49	46	35	29	19	19	35.4	54
TOT	57	56	46	36	29	21	19	36.2	259

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	.0	.0	25.0	75.0	94	4
06009	.0	.0	.0	14.3	.0	85.7	93	7
12015	.0	.0	.0	.0	33.3	66.7	96	6
18021	.0	.0	.0	.0	50.0	50.0	92	2
TOT	0	0	0	1	4	14	94	19

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

MAY

AREA 0019 OKHOTSK SEA SW
51.6N 147.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.5	.0	1	.0	.5
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
14/16	.0	.0	.0	.0	.0	.5	.0	.0	.0	1	.0	.5
11/13	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	4	1.0	1.0
9/10	.0	.0	.0	.5	.0	1.5	.5	.0	.0	5	1.0	1.5
7/8	.0	.0	.5	.5	.5	1.0	.0	.0	.0	6	.5	2.5
6	.0	.0	.5	.5	.5	1.0	.0	.0	.0	4	.0	2.0
5	.0	.0	.0	.5	2.0	1.0	.5	.0	.0	8	1.0	3.0
4	.0	.0	2.5	5.9	.5	.0	.0	.0	.0	18	1.5	7.4
3	.0	.0	1.0	1.5	.0	.5	.0	.0	.0	6	1.5	1.5
2	.0	.0	5.9	3.5	1.0	.0	.5	.0	.0	22	2.5	4.4
1	.0	2.0	3.0	3.0	.5	.0	.0	.0	.0	17	1.5	6.9
0	.0	3.0	6.9	1.5	1.5	.5	.0	.0	.0	27	6.4	6.9
-1	.0	2.0	4.5	3.0	.5	.0	.0	.0	.0	20	3.5	6.4
-2	.0	2.0	5.4	1.5	.0	.0	.0	.0	.0	18	3.5	5.4
-3	.0	1.5	2.5	1.0	.0	.0	.0	.0	.0	10	.5	4.5
-4	.5	2.0	2.0	.0	.0	.0	.0	.0	.0	9	1.0	3.5
-5	.5	2.5	1.0	.0	.5	.0	.0	.0	.0	9	1.0	3.5
-6	.5	1.5	1.0	1.0	.0	.0	.0	.0	.0	8	1.5	2.5
-7/-8	1.0	.5	2.0	.0	.0	.0	.0	.0	.0	7	3.5	.0
-9/-10	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
TOTAL	5	.5	77	.0	18	.0	3	.0	1	63	6.0	139
PCT	2.5	17.3	38.1	23.8	8.9	6.9	1.5	.5	.5	100.0	31.2	68.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.7	.0	.0	.0	.0	.7
1-2	.5	.9	1.9	.0	.0	.0	3.4	.0	.9	2.2	.0	.0	.0	3.1
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.7	.8	.0	.0	.0	1.5
5-6	.0	.0	1.2	2.0	.0	.0	3.2	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	.1	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.7
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.5	5.5	2.6	.0	.0	10.1	.0	2.3	5.8	.3	.5	.0	8.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.4	.0	.0	.0	.0	3.0	1.1	1.4	.0	.0	.0	.0	2.4
1-2	.0	1.8	2.6	.0	.0	.0	4.3	.0	1.9	3.2	.0	.0	.0	5.1
3-4	.0	.9	1.4	.5	.0	.0	2.8	.0	1.6	2.8	.5	.0	.0	5.0
5-6	.0	.0	.4	.5	.0	.0	.9	.0	.0	1.8	.5	.0	.0	2.3
7	.0	.5	.0	.4	.0	.0	.9	.0	.0	1.2	.1	.0	.0	1.4
8-9	.0	.0	.4	.9	.0	.0	1.4	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.7	4.7	2.8	.0	.0	13.8	1.1	4.9	9.7	1.4	.0	.0	17.0

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0019 QKHOYSK SEA SW
51.8N 147.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.0	.5	.0	.0	.0		2.6	.0	.5	1.1	.0	.0	.0		1.6
1-2	.0	1.9	2.7	.0	.0	.0		4.6	.0	1.2	1.2	.0	.0	.0		2.4
3-4	.0	.9	1.6	.5	.0	.0		3.1	.0	.7	2.2	.0	.0	.0		2.8
5-6	.0	.0	2.6	.4	.0	.0		3.0	.0	.0	1.8	.1	.0	.0		1.9
7	.0	.0	.4	.4	.0	.0		.8	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.9	.0	.0	.0		.9	.0	.0	.1	.5	.0	.0		.7
10-11	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.9	8.8	1.9	.0	.0		15.5	.0	2.4	6.4	.7	.0	.0		9.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.1	.0	.0	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.4	1.6	.0	.0	.0		2.0	.0	1.8	1.4	.0	.0	.0		3.1	
3-4	.0	.0	.5	.0	.0	.0		.5	.0	.5	1.8	.0	.0	.0		2.3	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.8	.7	.0	.0		1.5	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.0	.0	.0		.5	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.1	.5	.0	.0		1.6	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.0	.5	.0		1.1	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.5	.0		.5	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	1.5	2.2	.0	.0	.0		3.6	.0	2.3	6.1	1.2	1.1	.0		10.7	89.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.4	3.6	1.6	.0	.0	.0	22.7	
1-2	.5	10.8	16.8	.0	.0	.0	28.1	
3-4	.0	5.4	13.0	1.6	.0	.0	20.0	
5-6	.0	.0	10.8	4.3	.0	.0	15.1	
7	.0	.5	3.2	1.1	.0	.0	4.9	
8-9	.0	.0	3.2	2.2	.0	.0	5.4	
10-11	.0	.0	.5	1.1	1.1	.0	2.7	
12	.0	.0	.0	.5	.5	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.0	25.4	49.2	10.8	1.6	.0	100.0	185

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.6	15.1	5.0	2.9	2.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.4	3.3	5.0	3.3	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
8-9	.0	.4	5.0	1.7	1.7	.8	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
10-11	.0	2.5	.0	.4	1.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
12-13	.0	.0	.8	.4	.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
>13	.0	.0	.0	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDEX	9.6	3.3	3.8	3.8	1.7	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	3
TOTAL	23	46	67	42	30	16	12	3	0	0	0	0	0	0	0	0	0	0	0	239	4
PCT	9.6	19.2	28.0	17.6	12.6	6.7	5.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0019 OKHOTSK SEA SW
51.8N 147.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	8.8	.0	7.8	.0	2.0	.0	.0	16.6	1.4	.0	42.2	2.7	1.4	.0	35.8
NE	6.9	.0	5.7	.0	.3	.0	.0	12.7	3.6	.0	34.3	1.2	1.2	.0	47.0
E	6.2	.0	12.8	.0	.0	.0	.0	19.0	2.9	.0	36.1	.0	2.9	.0	39.1
SE	5.4	.9	4.3	.0	.0	.0	.0	10.6	.4	.0	49.6	.9	.0	.0	38.6
S	1.6	.0	1.7	.0	.0	.0	.0	3.3	1.6	.0	63.5	.0	.3	.0	31.1
SW	1.2	.0	.0	.0	.0	.0	.0	1.2	4.9	.0	44.5	.0	.4	.0	49.0
W	8.8	.0	8.8	.0	.0	.0	.0	17.6	3.2	.0	41.6	3.2	.0	.0	34.4
NW	2.9	.0	14.6	.0	.6	.0	.0	17.5	.0	.0	31.0	4.7	.0	.0	46.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	.0	2.7	.0	.0	.0	.0	5.4	.0	.0	45.9	.0	.0	.0	48.6
TOT PCT	4.6	.1	5.5	.0	.3	.0	.0	10.3	1.9	.0	46.6	1.0	.7	.0	39.4
TOT OBS:	672														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.9	.0	4.4	.0	.5	.0	.0	8.4	1.0	.0	47.8	1.0	2.0	.0	39.9
06009	2.4	.0	5.9	.0	.0	.0	.0	8.3	2.4	.0	46.2	.8	.6	.0	42.0
12015	6.4	.5	4.0	.0	.0	.0	.0	10.9	1.0	.0	43.6	2.5	.3	.0	41.6
18021	7.4	.0	8.1	.0	.7	.0	.0	15.4	4.0	.0	48.3	.0	.0	.0	32.2
TOT PCT	5.0	.1	5.4	.0	.3	.0	.0	10.5	1.9	.0	46.3	1.1	.8	.0	39.3
TOT OBS:	723														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	6.0	3.1	1.2	.0	.0		11.0	11.7		11.8	10.7	8.9	7.7	7.3	14.3	18.7	.0
NE	.5	5.5	5.0	.4	.0	.0		11.4	10.7		11.3	4.8	9.4	7.7	10.3	25.7	14.2	7.7
E	.7	3.8	4.0	.6	.0	.0		9.2	11.7		10.9	6.0	4.4	15.4	11.7	3.6	10.4	7.7
SE	.7	7.7	5.6	1.7	.2	.0		18.8	12.8		17.6	19.0	23.7	19.2	20.6	7.1	11.7	32.7
S	1.2	7.8	13.4	1.2	.2	.0		23.8	12.7		22.4	29.8	23.5	32.7	24.3	25.0	21.4	36.5
SW	.5	4.9	3.3	.4	.0	.0		9.1	11.2		10.5	10.7	11.3	9.6	7.4	10.7	6.1	7.7
W	.0	2.2	2.8	.3	.0	.0		5.3	12.4		6.1	.0	6.3	5.8	4.6	.0	5.4	7.7
NW	.2	2.2	3.2	.5	.0	.0		6.1	12.7		5.4	14.3	5.7	1.9	7.8	3.6	5.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0		3.9	4.8	6.7	.0	6.1	.0	7.2	.0
TOT OBS	60	243	264	38	2	0	607		11.4		152	21	135	13	148	14	111	13
TOT PCT	9.9	40.0	43.5	6.3	.3	.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.1	5.8	1.7	.3	.0		11.0	11.2	11.7	8.8	7.9	16.7
NE	3.5	5.7	2.1	.0	.0		11.4	10.7	10.5	9.3	12.5	13.5
E	2.6	5.2	1.1	.3	.0		9.2	11.5	10.3	5.4	11.0	10.1
SE	4.0	10.0	4.2	.5	.2		18.8	12.8	17.8	23.3	19.4	13.9
S	4.5	13.3	5.5	.3	.2		23.8	12.7	23.3	24.3	24.4	23.0
SW	1.6	5.5	1.9	.0	.0		9.1	11.2	10.5	11.1	7.7	6.3
W	.8	3.3	1.2	.0	.0		5.3	12.4	5.3	6.3	4.2	5.6
NW	1.6	3.1	1.0	.3	.0		6.1	12.7	6.3	5.4	7.4	4.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	4.0	6.1	5.6	6.5
TOT OBS	165	316	113	11	2	607		11.4	173	148	162	124
TOT PCT	27.2	52.1	18.6	1.8	.3				100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1966-1974
(COVER-1.1) 1908-1974

JUNE

AREA 0019 OKHOTSK SEA SW
51.8N 147.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00603	4.0	5.8	42.2	41.6	6.4	.0	.0	11.3	100.0	173	
06609	6.1	2.0	31.1	54.7	5.4	.7	.0	12.3	100.0	148	
12615	5.6	4.3	43.2	40.1	6.2	.6	.0	11.4	100.0	162	
18621	6.5	5.6	43.5	37.1	7.3	.0	.0	10.4	100.0	124	
TOT	33	27	243	264	38	2	0	11.4		607	
PCT	5.4	4.4	40.0	43.5	6.3	.3	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.2	2.0	8.7		7.0
NE	.7	.0	2.2	8.6		7.2
E	.5	.5	.8	9.2		7.3
SE	.9	.6	1.6	14.4		7.3
S	2.9	.8	1.3	18.0		6.8
SW	1.8	.8	.7	6.1		6.0
W	.6	.3	.5	2.8		6.3
NW	.6	.0	.4	4.4		7.0
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.2	4.6		6.6
TOT OBS	54	19	53	419	545	6.9
TOT PCT	9.9	3.5	9.7	76.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
5.5	.0	.3	.6	1.4	1.7	.6	.0	.0	.2	1.5		
3.2	.0	.1	1.3	3.1	1.9	.6	.2	.0	.2	1.1		
4.4	.0	.1	.7	1.8	2.0	.4	.0	.0	.2	1.4		
8.1	.0	.0	1.4	1.0	3.9	.8	.3	.0	.2	1.9		
11.7	.2	.4	1.2	1.7	2.2	.6	.5	.2	.4	3.9		
3.9	.0	.2	.0	.6	1.7	.3	.0	.0	.0	2.7		
1.6	.0	.0	.0	.8	.3	.3	.0	.0	.0	1.3		
1.6	.0	.6	.6	1.3	.7	.0	.0	.0	.0	.7		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2.9	.0	.0	.2	.4	.7	.4	.0	.0	.2	1.1		
234	1	9	32	67	83	21	5	1	7	85		545
42.9	.2	1.7	5.9	12.3	15.2	3.9	.9	.2	1.3	15.6		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.2	1.2	1.2	1.2	1.2	1.4	1.4
>5000	1.2	1.7	1.9	1.9	1.9	1.9	2.1	2.1
>3500	2.6	3.8	5.0	5.0	5.0	5.2	5.6	5.7
>2000	9.9	16.7	19.6	19.8	20.0	20.3	20.8	21.0
>1000	13.0	23.6	29.7	30.6	31.1	31.6	32.5	32.6
>600	13.4	25.2	34.4	36.3	37.2	37.8	38.7	38.9
>300	13.7	25.7	35.2	37.7	38.5	39.2	40.1	40.3
>150	13.7	25.9	35.4	37.8	38.7	39.4	40.3	40.5
>0	13.9	27.4	37.8	42.0	45.0	60.1	81.4	84.7
TOTAL	80	158	218	242	259	346	469	488

TOTAL NUMBER OF OBS: 576

PCT FREQ NH <5/8: 15.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	8.8	2.3	2.1	.7	1.8	2.0	2.8	3.6	34.7	41.4	614

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0019 OKHOTSK SEA SW
51.0N 147.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.3	.4	.1	.1	.1	.0	.2	.0	.0	1.2	
	NO PCP	4.4	2.8	3.2	7.1	11.0	3.5	1.7	1.4	.0	2.0	37.1	
	TOT %	4.6	3.1	3.6	7.2	11.1	3.6	1.7	1.5	.0	2.0	38.3	
1/2<1	PCP	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.8	
	NO PCP	.3	.3	.0	.3	1.1	.2	.0	*	.0	.2	2.3	
	TOT %	.3	.3	.0	.4	1.2	.2	.5	*	.0	.2	3.0	
1<2	PCP	.5	.2	.1	.2	.0	.0	.0	.4	.0	.2	1.5	
	NO PCP	.0	.5	.6	.3	.3	.0	.0	.3	.0	.2	2.1	
	TOT %	.5	.6	.8	.5	.3	.0	.0	.7	.0	.3	3.6	
2<5	PCP	.8	.5	.4	.8	.4	.0	.3	.4	.0	.0	3.6	
	NO PCP	.5	1.4	1.1	1.6	2.3	.2	.4	.2	.0	.6	8.1	
	TOT %	1.2	1.9	1.5	2.4	2.7	.2	.7	.6	.0	.6	11.7	
5<10	PCP	.4	.6	1.1	.6	.2	*	.1	.2	.0	.2	3.3	
	NO PCP	1.7	1.4	1.7	1.8	3.4	2.0	.4	1.5	.0	.9	14.7	
	TOT %	2.0	2.0	2.8	2.4	3.5	2.1	.5	1.7	.0	1.1	18.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.5	4.6	1.7	4.5	4.3	3.1	1.4	1.8	.0	1.5	25.4	
	TOT %	2.5	4.6	1.7	4.5	4.3	3.1	1.4	1.8	.0	1.5	25.4	
TOT OBS													
TOT PCT		11.1	12.5	10.3	17.4	23.1	9.1	4.7	6.3	.0	5.6	100.0	666

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	*	.2	.3	.8	.0	.0	.2	.0	1.9	3.9	
	4-10	3.2	1.9	1.4	3.7	3.6	2.7	1.0	.4	.0		17.8	
	11-21	.6	.9	1.8	4.8	7.1	1.4	.9	1.1	.0		18.5	
	22+	.3	.0	.2	.4	1.0	.0	.0	*	.0		1.9	
	TOT %	4.5	2.9	3.5	9.2	12.5	4.1	1.9	1.7	.0	1.9	42.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.2	.0	.0	.3	.0	.0	.0	.0		.7	
	11-21	.0	.2	.0	.0	.2	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.2	.2	.0	.2	.0	.0		.5	
	TOT %	.2	.3	.0	.2	.6	.0	.3	.0	.0	.2	1.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.3	.0	.3	.0	.0	.0	.0	.3	.0		1.0	
	11-21	.2	.5	.3	.6	.0	.0	.0	.2	.0		1.7	
	22+	.1	.0	.0	.0	.0	.2	.0	*	.0		.3	
	TOT %	.6	.5	.6	.6	.0	.2	.0	.5	.0	.2	3.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.3	.7	.2	.9	1.1	.2	.2	.2	.0		3.7	
	11-21	.4	.8	.5	1.3	1.6	.0	.4	.3	.0		5.2	
	22+	.5	.0	.2	.3	.0	.0	.2	.2	.0		1.3	
	TOT %	1.3	1.4	.8	2.5	2.7	.2	.8	.6	.0	.5	10.8	
5<10	0-3	.0	.3	.4	.2	.2	.3	.0	.0	.0	1.2	2.5	
	4-10	.9	.4	1.1	1.1	1.1	.8	.0	.6	.0		5.9	
	11-21	1.1	1.3	1.0	.5	1.9	.7	.5	1.0	.0		7.9	
	22+	.1	.0	.2	.7	.2	.2	.0	*	.0		1.3	
	TOT %	2.1	1.9	2.7	2.4	3.3	1.9	.5	1.6	.0	1.2	17.7	
10+	0-3	.3	.2	.0	.2	.2	.2	.0	.1	.0	1.5	2.5	
	4-10	1.2	2.5	1.0	1.9	1.7	1.3	.9	.8	.0		11.3	
	11-21	.9	1.5	.6	1.5	2.3	1.2	.7	.7	.0		9.4	
	22+	.2	.2	.1	.3	.1	*	.0	.2	.0		1.2	
	TOT %	2.5	4.4	1.7	4.0	4.3	2.7	1.6	1.7	.0	1.5	24.4	
TOT OBS													
TOT PCT		11.2	11.4	9.3	18.8	23.4	9.2	5.1	6.2	.0	5.4	100.0	394

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PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974AREA 0019 OKHOTSK SEA SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	44.3	.0	1.8	4.8	10.8	11.4	5.4	.0	.0	.0	78.4	21.6	167
06009	35.4	.7	2.8	7.6	16.7	13.9	4.9	1.4	.0	1.4	84.7	15.3	144
12015	45.6	.0	1.3	3.8	8.8	18.8	2.5	1.9	.0	.6	83.1	16.9	160
18021	49.6	.0	.0	9.2	10.9	16.0	.8	.0	.8	3.4	90.8	9.2	119
TOT	257	1	9	36	69	88	21	5	1	7	494	96	590
PCT	43.6	.2	1.5	6.1	11.7	14.9	3.6	.8	.2	1.2	83.7	16.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	39.9	2.4	3.9	11.7	12.6	29.6	206
06009	35.5	2.9	1.2	16.3	22.1	22.1	172
12015	38.5	2.9	5.4	9.8	18.0	25.4	205
18021	42.9	4.5	7.7	9.6	17.3	17.9	156
TOT	289	23	33	87	128	179	739
PCT	39.1	3.1	4.5	11.8	17.3	24.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	46.0	50.3	62.7	18.6	18.6	161
06009	37.2	43.8	59.1	29.9	10.9	137
12015	45.3	49.1	60.4	22.6	17.0	159
18021	49.6	55.5	68.9	24.4	6.7	119
TOT	256	283	360	136	80	576
PCT	44.4	49.5	62.5	23.6	13.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	1.4	.0	.0	.0	1	1.4
50/54	.0	.0	.0	.0	.0	.0	.0	2.8	2	2.8
45/49	.0	.0	.0	1.4	.0	1.4	1.4	8.3	9	12.5
40/44	.0	.0	.0	.0	.0	9.7	.0	25.0	25	34.7
35/39	.0	.0	.0	.0	.0	4.2	2.8	34.7	30	41.7
30/34	.0	.0	.0	.0	.0	.0	.0	6.9	5	6.9
TOTAL	0	0	0	1	1	11	3	56	72	100.0
PCT	.0	.0	.0	1.4	1.4	15.3	4.2	77.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	1.0	.3	.0	.0
.0	.0	.0	.0	1.4	.3	1.0	.0	.0	.0
1.4	.0	2.4	3.5	2.4	.0	1.4	1.4	.0	.0
4.5	12.8	4.9	5.9	3.8	.0	.0	1.4	.0	1.4
5.2	8.7	2.8	1.7	7.6	3.5	3.5	7.3	.0	1.4
3.5	.3	1.4	.0	.0	.0	1.4	.3	.0	.0
14.6	21.9	11.5	11.1	15.3	3.8	8.3	10.8	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	61	54	42	34	32	22	42.8	204
06009	63	59	52	43	35	32	28	43.5	172
12015	69	55	48	41	34	32	28	41.5	200
18021	59	51	46	41	34	25	25	40.3	149
TOT	69	59	52	41	34	30	22	42.1	725

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	25.0	.0	75.0	91	20
06009	.0	.0	.0	.0	.0	14.3	9.5	76.2	94	21
12015	.0	.0	.0	.0	.0	5.9	5.9	76.5	92	17
18021	.0	.0	.0	.0	.0	13.3	6.7	80.0	95	15
TOT	0	1	1	1	1	11	4	56	93	73

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PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1968-1974AREA 0019 OKHOTSK SEA SW
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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2	.3	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	5	.3	.5
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.2	.2	.2	.3	.0	5	.2	.6
11/13	.0	.0	.0	.0	.0	.5	.6	.6	.2	.2	.2	14	.9	1.3
9/10	.0	.0	.0	.0	.0	1.1	.6	.5	.3	.2	.2	18	.8	2.0
7/8	.0	.0	.0	.0	.3	1.7	1.9	.5	.3	.0	.0	30	1.6	3.2
6	.0	.0	.0	.2	.6	.2	1.1	.6	.0	.0	.0	17	1.3	1.4
5	.0	.0	.0	.2	1.1	1.6	2.5	.2	.2	.0	.0	36	2.5	3.2
4	.0	.0	.0	.5	.9	1.3	3.2	.6	.0	.0	.0	41	2.8	3.6
3	.0	.0	.0	.3	.8	2.1	1.6	.2	.0	.0	.0	31	1.7	3.2
2	.0	.0	.2	.5	2.5	4.7	4.4	.6	.0	.0	.0	82	7.3	5.7
1	.0	.0	.0	.5	1.3	3.2	1.7	.0	.0	.0	.0	42	2.4	4.3
0	.0	.0	.2	2.8	4.6	5.4	2.7	.2	.0	.0	.0	100	6.3	9.5
-1	.0	.0	.3	.0	2.8	2.2	.9	.3	.0	.0	.0	42	2.2	4.4
-2	.0	.0	.0	.9	4.1	1.9	1.6	.2	.0	.0	.0	55	4.4	4.3
-3	.0	.0	.3	.8	.8	1.3	.2	.2	.0	.0	.0	22	2.2	1.3
-4	.0	.0	.2	1.3	2.4	1.6	.5	.0	.0	.0	.0	37	3.2	2.7
-5	.0	.2	.2	.9	2.1	.3	.3	.0	.0	.0	.0	25	2.1	1.9
-6	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	3	.3	.2
-7/-10	.0	.0	.3	.6	.2	.5	.2	.0	.0	.0	.0	11	.9	.8
-9/-10	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	6	.8	.2
-11/-13	.2	.5	.2	.3	.0	.2	.0	.0	.0	.0	.0	8	.8	.5
TOTAL	1		11		161	189	154		9		4	634	287	347
PCT	.2	.6	1.7	9.8	25.4	29.8	24.3	4.7	1.4	1.4	.6	100.0	45.3	54.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.2	2.2	.7	.0	.0	.0	3.1	.3	.9	1.8	.0	.0	.0	3.1
3-4	.0	.3	2.5	.3	.0	.0	3.0	.0	.3	3.2	.3	.0	.0	3.8
5-6	.0	.3	.3	.6	.0	.0	1.1	.0	.0	.5	.0	.0	.0	.5
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.3	.2	.0	.0	.4	.0	.0	.5	.3	.0	.0	.8
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	3.7	1.3	.0	.0	10.2	.3	4.2	6.5	.6	.0	.0	11.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.4	.3	2.2	.0	.0	.0	.0	2.5
1-2	.3	2.6	2.0	.0	.0	.0	4.8	.3	3.3	3.0	.0	.0	.0	6.5
3-4	.0	.4	1.8	.2	.0	.0	2.4	.0	.9	3.0	1.5	.0	.0	5.4
5-6	.0	.3	.3	.0	.0	.0	.5	.0	.3	.8	.3	.0	.0	1.6
7	.0	.3	.8	.8	.0	.0	1.8	.0	.0	.6	.2	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.7	4.8	.9	.0	.0	10.9	.5	6.6	7.9	2.3	.3	.0	17.6

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0019 OKHOTSK SEA SW
51.8N 147.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.0	.0	.0	.0	2.3	.3	1.3	.3	.0	.0	.0	1.8
1-2	.3	4.5	3.2	.0	.0	.0	7.9	.0	3.0	1.1	.0	.0	.0	4.1
3-4	.0	.9	5.5	.0	.0	.0	6.4	.0	.6	1.2	.3	.0	.0	2.0
5-6	.0	.0	3.4	.3	.0	.0	3.7	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	1.4	.7	.0	.0	2.1	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.7	13.5	1.2	.0	.0	22.9	.3	4.8	3.7	.3	.0	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.1	1.3	.0	.0	.0	.0	1.4	
1-2	.0	.7	.7	.0	.0	.0	1.4	.0	.0	.8	.0	.0	.0	.8	
3-4	.0	.2	1.6	.3	.0	.0	2.0	.0	.0	1.5	.0	.0	.0	1.5	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.1	.6	.0	.0	1.7	
7	.0	.0	.2	.3	.0	.0	.4	.0	.3	.5	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.9	2.6	.5	.0	.0	5.0	.1	1.6	3.8	.7	.0	.0	6.2	93.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	13.4	.3	.0	.0	.0	21.9	
1-2	1.3	17.1	13.4	.0	.0	.0	31.7	
3-4	.0	3.5	20.2	2.8	.0	.0	26.4	
5-6	.0	.8	7.1	1.8	.3	.0	9.8	
7	.0	.8	4.3	2.0	.0	.0	7.1	
8-9	.0	.3	1.3	.5	.0	.0	2.0	
10-11	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	35.8	46.6	7.8	.3	.0	100.0	397

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	16.2	14.3	5.8	3.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	3
6-7	.0	1.2	4.0	3.7	2.8	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	5
8-9	.0	.9	1.4	2.1	.5	1.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	5
10-11	.0	1.4	.2	.4	.5	.4	.4	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	.7	.2	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	7.4	4.9	12.0	4.9	3.0	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	3
TOTAL	47	140	185	97	61	22	8	4	3	0	0	1	0	0	0	0	0	0	0	568	4
PCT	8.3	24.6	32.6	17.1	10.7	3.9	1.4	.7	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1885-1974

JULY

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.0	.0	9.6	.0	.0	.0	.0	14.0	1.2	.0	28.0	.0	.0	.0	56.2
NE	5.6	.0	5.1	.0	.0	.0	.0	10.7	.5	.0	40.7	.0	.0	.0	48.1
E	3.9	.0	3.6	.0	.0	.0	.0	7.5	2.2	.0	44.1	1.1	.0	.0	45.2
SE	3.7	.7	6.7	.0	.0	.0	.0	11.1	1.9	1.5	43.1	.9	.9	.2	40.4
S	2.4	.0	5.2	.0	.0	.0	.0	7.6	1.3	.6	45.5	1.0	.8	.4	42.8
SW	3.5	.0	5.2	.0	.0	.0	.0	8.7	3.5	.0	40.2	.3	.3	.0	46.9
W	.0	.0	4.6	.0	.0	.0	.0	4.6	2.8	.0	42.1	2.2	.0	.0	48.3
NW	1.7	.0	4.3	.0	.0	.0	.0	6.0	.4	.0	28.3	5.6	.0	.0	59.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.3	.0	.0	.0	.0	1.3	1.3	.0	48.0	2.7	1.3	.0	45.3
TOT PCT	2.8	.1	5.3	.0	.0	.0	.0	8.2	1.7	.4	41.1	1.3	.5	.1	46.7
TOT OBS:	816														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.3	.0	5.4	.0	.0	.0	.0	7.8	.8	.4	46.3	1.9	.4	.4	42.0
06009	2.5	.0	1.0	.0	.0	.0	.0	3.5	1.5	.0	37.2	2.0	1.5	.0	54.3
12015	.4	.0	7.7	.0	.0	.0	.0	8.1	2.6	.4	39.3	1.3	.0	.0	48.3
18021	7.1	.5	7.7	.0	.0	.0	.0	15.3	1.6	.5	42.6	.0	.5	.0	39.3
TOT PCT	2.9	.1	5.5	.0	.0	.0	.0	8.5	1.6	.3	41.6	1.4	.6	.1	45.9
TOT OBS:	873														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	5.4	3.6	.2	.0	.0		9.8	10.4	8.3	10.4	9.6	11.7	10.5	5.7	10.5	13.7	
NE	.3	4.7	1.6	.2	.0	.0		6.7	9.2	11.0	3.7	7.0	3.1	6.0	.0	5.7	3.2	
E	1.1	4.6	2.5	.1	.0	.0		8.3	8.9	10.7	6.1	5.6	1.6	9.3	4.3	10.5	8.1	
SE	1.0	8.2	6.0	1.1	.0	.0		16.2	11.1	16.7	32.9	14.2	20.3	14.5	18.6	11.6	22.6	
S	1.4	11.1	8.2	1.5	.1	.0		22.3	11.0	17.2	22.0	25.3	28.1	24.8	25.7	21.6	17.7	
SW	.7	5.1	3.9	.5	.0	.0		10.2	10.7	10.1	1.2	10.6	4.7	8.2	12.9	16.0	9.7	
W	1.0	6.7	3.4	.3	.0	.0		11.5	9.5	10.4	15.2	9.1	18.8	13.7	20.0	7.1	14.5	
NW	.3	2.3	2.3	.7	.0	.0		5.5	12.9	7.2	3.7	7.3	5.5	3.7	4.3	4.8	4.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.4							9.4	.0	8.3	4.9	11.3	6.3	9.3	8.6	12.2	6.5	
TOT OBS	120	367	240	35	1	0	763		9.5	180	41	151	32	162	35	131	31	
TOT PCT	15.7	48.1	31.5	4.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.3	5.0	1.4	.0	.0		9.8	10.4	8.7	10.0	9.6	11.1
NE	2.1	4.3	.4	.0	.0		6.7	9.2	9.6	6.3	4.9	5.2
E	3.1	4.7	.5	.0	.0		8.3	8.9	9.8	4.9	8.4	10.0
SE	5.0	7.5	3.6	.1	.0		16.2	11.1	19.7	15.3	15.2	13.7
S	6.5	10.6	5.1	.1	.0		22.3	11.0	18.1	25.8	25.0	20.8
SW	2.9	5.5	1.6	.2	.0		10.2	10.7	8.5	9.6	9.0	14.8
W	4.0	6.2	1.2	.1	.0		11.5	9.5	11.3	10.8	14.8	8.5
NW	1.4	2.6	1.3	.3	.0		5.5	12.9	6.6	7.0	3.8	4.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.4						9.4	.0	7.7	10.4	9.1	11.1
TOT OBS	288	354	115	6	0	763		9.5	221	183	197	162
TOT PCT	37.7	46.4	15.1	.8	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1883-1974

JULY

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.7	7.7	31.1	29.0	4.1	.5	.0	9.4	100.0	221
0600	10.4	6.6	43.7	33.9	5.5	.0	.0	10.0	100.0	183
1200	9.1	6.1	48.2	31.5	5.1	.0	.0	9.5	100.0	197
1800	11.1	4.3	48.8	32.1	3.7	.0	.0	9.1	100.0	162
TOT	72	48	367	240	35	1	0	9.5		763
PCT	9.4	6.3	48.1	31.5	4.6	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.5	1.2	7.8		7.1
NE	.6	.6	.2	5.8		6.9
E	.0	.1	1.0	7.6		7.7
SE	1.4	.2	1.7	11.9		7.0
S	2.5	1.1	2.2	15.9		6.7
SW	1.2	.6	1.1	7.6		6.8
W	.8	.7	1.4	5.9		6.5
NW	.5	.2	.8	6.4		7.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	1.3	7.5		6.7
TOT OBS	55	27	69	474	625	6.9
TOT PCT	8.8	4.3	11.0	75.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8	TOTAL OBS
N	3.3	.0	.0	.5	1.9	2.7	.3	.0	.0	.0	1.5	
NE	3.3	.2	.1	.0	.7	1.2	.2	.2	.2	.0	1.4	
E	4.0	.0	.2	.4	1.3	1.8	.4	.2	.2	.0	.2	
SE	5.4	.0	.2	.2	2.2	3.0	1.0	.3	.3	.2	2.3	
S	8.1	.0	.2	.6	3.1	4.0	.9	.2	.2	.0	4.6	
SW	3.6	.0	.2	.4	1.7	1.6	.6	.0	.5	.0	2.0	
W	3.2	.0	.1	.0	.3	1.7	.6	.3	.0	.0	2.0	
NW	1.9	.0	.0	.5	1.8	2.0	.6	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.6	.0	.2	.0	.6	2.4	.3	.0	.2	.2	1.6	
TOT OBS	234	1	7	16	86	128	30	7	9	2	105	625
TOT PCT	37.4	.2	1.1	2.6	13.8	20.5	4.8	1.1	1.4	.3	16.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.5	1.8	1.8	1.8	1.8	1.8	1.8
>5000	2.0	2.4	2.9	3.0	3.0	3.0	3.0	3.0
>3500	5.0	5.8	6.8	7.3	7.3	7.3	7.3	7.3
>2000	12.3	21.5	24.7	25.6	25.7	25.9	25.9	26.0
>1000	15.7	31.1	37.4	38.7	39.1	39.7	39.7	39.9
>600	16.0	32.6	39.7	40.9	41.6	42.2	42.2	42.3
>300	16.1	33.0	40.6	42.0	42.6	43.2	43.2	43.4
>150	16.1	33.0	40.8	42.2	42.8	43.4	43.4	43.5
>0	16.3	33.2	45.5	47.9	51.8	43.6	79.8	82.6
TOTAL	107	231	299	315	340	418	524	543

TOTAL NUMBER OF OBS: 637

PCT FREQ NH <5/8: 17.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.2	1.2	1.7	2.0	1.9	1.7	3.5	4.2	35.8	37.8	693

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1869-1974AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.4	.4	.0	.1	.0	.0	.0	1.0	
	NO PCP	2.1	2.0	3.2	5.0	7.0	2.9	2.9	.9	.0	2.6	28.7	
	TOT %	2.1	2.2	3.2	5.4	7.4	2.9	3.1	.9	.0	2.6	29.7	
1/2<1	PCP	.0	.0	.1	*	.1	*	.0	.0	.0	.0	.2	
	NO PCP	.2	*	.1	.6	.7	.4	.4	.3	.0	1.0	3.8	
	TOT %	.2	*	.2	.6	.8	.5	.4	.3	.0	1.0	4.1	
1<2	PCP	.2	.0	.1	.0	.1	.4	.0	.1	.0	.0	.9	
	NO PCP	.1	.1	.2	.6	.3	*	.1	.3	.0	.2	2.0	
	TOT %	.3	.1	.3	.6	.4	.4	.1	.3	.0	.2	2.8	
2<5	PCP	.7	.4	.1	.6	.5	.2	.3	.0	.0	.0	2.8	
	NO PCP	.9	.6	1.0	.6	1.9	.9	.6	.9	.0	.5	7.9	
	TOT %	1.6	1.0	1.1	1.2	2.4	1.1	1.0	.9	.0	.5	10.8	
5<10	PCP	.4	.0	.3	.6	.4	.2	.0	.4	.0	.1	2.5	
	NO PCP	1.7	1.3	2.0	3.7	3.2	1.7	2.3	2.1	.0	1.2	19.3	
	TOT %	2.1	1.3	2.4	4.4	3.6	1.9	2.3	2.4	.0	1.4	21.8	
10+	PCP	.2	.2	.0	.2	.2	.1	.0	.0	.0	.0	.9	
	NO PCP	3.3	1.8	1.5	4.3	7.0	3.6	3.0	2.0	.0	3.6	30.0	
	TOT %	3.5	1.9	1.5	4.5	7.1	3.8	3.0	2.0	.0	3.6	30.9	
TOT OBS													
TOT PCT													
		9.7	6.6	8.6	16.7	21.8	10.6	9.8	6.9	.0	9.3	100.0	809

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.6	.3	.5	.3	.6	.0	.0	2.6	5.2	
	4-10	1.6	1.9	1.6	3.1	3.1	1.1	3.3	.5	.0		16.3	
	11-21	.5	.3	.9	1.8	2.7	1.2	1.0	.5	.0		8.9	
	22+	.1	.1	.0	.5	.7	.2	.0	.0	.0		1.6	
	TOT %	2.4	2.5	3.2	5.7	7.1	2.8	4.9	1.0	.0	2.6	32.0	
1/2<1	0-3	.0	.0	.0	.1	.3	.0	.1	.0	.0	1.1	1.6	
	4-10	.2	.0	.1	.3	.6	.2	.4	.1	.0		2.0	
	11-21	.0	*	.1	.0	.1	.0	.0	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.2	*	.2	.4	1.0	.4	.6	.2	.0	1.1	4.2	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	.2	.0	.1	.2	.2	.2	.1	.2	.0		1.2	
	11-21	.0	.1	.0	.3	.2	.1	.0	.0	.0		.8	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.1	.3	.5	.5	.3	.1	.2	.0	.3	2.6	
2<5	0-3	.0	.1	.0	.0	.1	*	.0	.0	.0	.7	.9	
	4-10	.9	.7	.6	.7	.9	.5	.4	.2	.0		5.0	
	11-21	.7	.2	.5	.6	1.5	.3	.2	.2	.0		4.3	
	22+	.1	*	.0	.1	.3	*	.1	.0	.0		.7	
	TOT %	1.7	1.1	1.1	1.5	2.8	.9	.7	.4	.0	.7	10.9	
5<10	0-3	.0	.0	.3	.2	.2	.0	.0	.1	.0	1.3	2.2	
	4-10	.8	.8	1.1	1.6	1.8	.6	1.2	.6	.0		8.7	
	11-21	1.0	.6	.7	2.1	1.3	1.1	1.0	.9	.0		8.7	
	22+	.0	.0	.0	.2	.3	.2	.1	.4	.0		1.2	
	TOT %	1.8	1.4	2.2	4.1	3.7	1.9	2.4	2.0	.0	1.3	20.8	
10+	0-3	.4	.1	.1	.3	.4	.3	.2	.1	.0	3.5	5.4	
	4-10	1.6	1.3	1.2	2.4	4.2	2.4	1.4	.8	.0		13.3	
	11-21	1.4	.3	.2	1.3	2.4	1.2	1.1	.5	.0		8.3	
	22+	.0	.0	.0	.2	.1	.0	.0	.1	.0		.4	
	TOT %	3.4	1.7	1.5	4.2	7.0	3.9	2.8	1.5	.0	3.5	29.6	
TOT OBS													
TOT PCT													
		9.8	6.9	8.5	16.3	22.1	10.2	11.4	5.3	.0	9.4	100.0	744

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1885-1974AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	45.3	.0	1.5	2.0	13.4	17.9	4.0	1.0	1.5	.5	87.1	12.9	201
06009	31.7	.6	1.2	1.8	12.6	23.1	4.8	.6	.6	.6	79.6	20.4	167
12015	37.1	.0	1.2	3.6	10.2	15.8	3.6	1.8	3.0	.0	77.2	22.8	167
18021	39.4	.0	.0	2.1	19.7	16.9	5.6	1.4	.7	.0	85.9	14.1	142
TOT	282	1	7	16	93	130	30	8	10	2	599	118	677
PCT	38.7	.1	1.0	2.4	13.7	19.2	4.4	1.2	1.5	.3	82.6	17.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	34.2	4.8	5.3	10.8	1.1	29.7	269
06009	28.8	7.7	1.9	10.4	18.9	35.4	212
12015	29.2	3.4	2.5	12.3	24.2	28.4	236
18021	32.2	6.0	3.3	13.1	25.7	19.7	183
TOT	281	42	25	104	190	258	900
PCT	31.2	4.7	2.8	11.6	21.1	28.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	45.7	50.8	58.4	31.5	10.2	197
06009	32.5	35.0	44.8	35.6	19.6	163
12015	37.8	41.5	53.0	26.8	20.1	164
18021	39.8	40.6	58.6	30.1	11.3	133
TOT	258	279	353	204	100	657
PCT	39.3	42.5	53.7	31.1	15.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	1.4	.0	.0	.0	.0	1	1.4
55/59	.0	.0	1.4	.0	.0	1.4	2.7	2.7	6	8.2
50/54	.0	.0	.0	1.4	1.4	6.8	1.4	34.2	33	45.2
45/49	.0	.0	.0	.0	1.4	4.1	1.4	27.4	25	34.2
40/44	.0	.0	.0	.0	.0	1.4	.0	9.6	8	11.0
TOTAL	0	0	1	2	2	10	4	54	73	100.0
PCT	.0	.0	1.4	2.7	2.7	13.7	5.5	74.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0
55/59	.0	1.4	1.4	.0	1.4	2.7	1.4	.0	.0	.0
50/54	8.9	4.1	2.1	4.5	11.3	6.5	2.4	2.7	.0	2.7
45/49	8.2	1.7	2.4	4.8	7.9	1.7	3.8	2.4	.0	1.4
40/44	1.4	2.7	.0	1.4	.0	.0	.0	5.5	.0	.0
TOTAL	18.5	9.9	5.8	10.6	20.5	12.3	7.5	10.6	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	68	61	50	41	36	32	50.1	265
06009	75	69	63	51	43	39	34	51.6	213
12015	66	64	57	48	41	38	37	48.7	232
18021	66	59	56	48	39	32	32	48.3	189
TOT	75	66	59	50	41	37	32	49.7	899

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	9.1	13.6	9.1	68.2	90	22
06009	.0	12.5	.0	.0	12.5	6.3	68.8	87	16	16
12015	.0	5.3	.0	.0	10.5	5.3	78.9	93	19	19
18021	.0	.0	.0	.0	17.6	.0	82.4	95	17	17
TOT	0	3	2	10	4	55	91	74		

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1885-1974

TABLE 17

AREA 0019 OKHOTSK SEA SW
51.9N 146.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	29	33	37	41	45	49	53	57	61	65	69	73	TOT	N	NO
TMP DIF	32	36	40	44	48	52	56	60	64	68	72	76		FOG	FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.3	5	.3	.4
23/25	.0	.0	.0	.0	.0	.0	.0	.4	.0	.1	.1	.0	5	.1	.5
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	6	.5	.3
17/19	.0	.0	.0	.0	.0	.4	.0	.0	.3	.1	.1	.0	7	.3	.7
14/16	.0	.0	.0	.0	.0	.1	.1	.1	.4	.3	.0	.0	8	.7	.4
11/13	.0	.0	.0	.1	.4	.1	.4	1.2	1.0	.1	.0	.1	26	1.2	2.3
9/10	.0	.0	.0	.0	.5	.3	1.1	1.1	.0	.1	.0	.0	23	1.1	2.0
7/8	.0	.0	.0	.0	.3	.7	1.8	.3	.5	.0	.0	.0	26	1.4	2.2
6	.0	.0	.0	.0	.1	.5	.7	.3	.0	.0	.0	.0	12	1.0	.7
5	.0	.0	.0	.1	2.5	1.8	1.6	.7	.0	.0	.0	.0	49	2.6	4.1
4	.0	.0	.0	.8	2.9	2.7	1.6	.4	.1	.0	.0	.0	63	3.1	5.5
3	.0	.0	.0	.5	1.4	1.6	1.1	.1	.3	.0	.0	.0	37	1.8	3.3
2	.0	.0	.0	.5	6.3	3.8	2.9	.0	.0	.0	.0	.0	99	5.7	7.8
1	.0	.0	.0	.4	1.6	3.4	.8	.1	.0	.0	.0	.0	47	2.6	3.8
0	.0	.3	.0	3.1	4.4	4.6	1.6	.1	.0	.0	.0	.0	104	5.9	8.3
-1	.0	.0	.0	1.1	1.1	3.0	.4	.0	.0	.0	.0	.0	41	1.4	4.2
-2	.0	.0	.3	1.1	4.6	1.9	.4	.0	.0	.0	.0	.0	61	3.7	4.6
-3	.0	.0	.1	.4	.8	.5	.1	.0	.0	.0	.0	.0	15	.7	1.4
-4	.0	.0	.5	.1	2.0	1.2	.4	.0	.0	.0	.0	.0	32	1.4	3.0
-5	.0	.1	.1	.4	1.0	.7	.4	.0	.0	.0	.0	.0	20	1.0	1.8
-6	.0	.0	.1	.1	.3	.3	.0	.0	.0	.0	.0	.0	6	.3	.5
-7/-8	.0	.0	.4	.3	.7	.3	.0	.0	.0	.0	.0	.0	12	.4	1.2
-9/-10	.0	.0	.4	.0	.7	.3	.0	.0	.0	.0	.0	.0	10	.5	.8
-11/-13	.3	.0	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	8	.8	.3
-14/-16	.1	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	4	.4	.1
-17/-19	.0	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	3	.3	.1
-20/-22	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	3	3	21	71	235	118	37	22	7	2	3	732	287	445	
PCT	.4	.4	2.9	9.7	32.1	28.7	16.1	5.1	3.0	1.0	.3	.4	100.0	39.2	60.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	3.3	1.5	.0	.0	.0	4.7	.0	2.3	.8	.0	.0	.0	3.1
3-4	.0	.5	2.1	.0	.0	.0	2.6	.0	1.8	.3	.3	.0	.0	2.3
5-6	.0	.0	.8	.3	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.8	.0	.0	.0	.8	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	5.3	.3	.0	.0	10.5	.0	5.9	1.1	.3	.0	.0	7.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.6	.0	.0	.0	.0	.8	.8	2.3	.1	.0	.0	.0	3.2
1-2	.2	2.9	.8	.0	.0	.0	3.9	.1	3.1	1.4	.0	.0	.0	4.6
3-4	.0	.9	1.7	.0	.0	.0	2.7	.0	1.3	3.3	.3	.0	.0	4.9
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.6	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.6	2.7	.3	.0	.0	8.0	.8	6.7	5.4	.9	.0	.0	13.9

PERIOD: (OVER-ALL) 1963-1974

JULY

TABLE 18 (CONT)

AREA 0019 DKHDTSK SEA SW
51.9N 146.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S										SW									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.5	4.6	.2	.0	.0	.0	5.3			.1	2.3	.3	.0	.0	.0	2.5			
1-2	.3	4.6	1.7	.0	.0	.0	6.5			.0	1.9	2.2	.0	.0	.0	4.1			
3-4	.0	1.8	2.2	.2	.0	.0	4.2			.0	.8	2.4	.3	.0	.0	3.4			
5-6	.0	.2	2.4	.7	.0	.0	3.3			.0	.3	1.8	.3	.0	.0	2.4			
7	.0	.0	.0	.2	.0	.0	.2			.0	.0	.0	.1	.0	.0	.1			
8-9	.0	.3	.0	.0	.0	.0	.3			.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.3	.0	.0	.3			.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.8	11.5	6.5	1.3	.0	.0	20.1			.1	5.3	6.6	.6	.0	.0	12.5			

W										NW										TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	.2	1.3	.0	.0	.0	.0	1.5			.3	.5	.0	.0	.0	.0	.8				
1-2	.0	1.6	1.7	.0	.0	.0	3.3			.0	.8	1.2	.0	.0	.0	2.0				
3-4	.3	.8	2.0	.0	.0	.0	2.8			.0	.0	1.9	.3	.0	.0	2.2				
5-6	.0	.0	.3	.2	.0	.0	.4			.0	.0	.5	.3	.0	.0	.8				
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.3	.0	.0	.3				
8-9	.0	.0	.0	.2	.0	.0	.2			.0	.0	.0	.1	.0	.0	.1				
10-11	.0	.0	.0	.3	.0	.0	.3			.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.3	.0	.0	.3				
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0				
TOT PCT	.2	3.6	4.0	.6	.0	.0	8.4			.3	1.3	3.6	1.1	.0	.0	6.3			86.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.2	13.9	.5	.0	.0	.0	29.6	
1-2	.5	20.5	11.1	.0	.0	.0	32.2	
3-4	.0	7.8	15.9	1.3	.0	.0	25.1	
5-6	.0	.8	6.3	2.3	.0	.0	9.4	
7	.0	.3	.8	.5	.0	.0	1.5	
8-9	.0	.3	.3	.5	.0	.0	1.0	
10-11	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.3	.0	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.7	43.8	35.2	5.3	.0	.0	100.0	395

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	15.8	14.4	6.1	1.4	.9	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	3
6-7	.0	.8	3.6	3.3	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	4
8-9	.0	.3	1.1	1.4	1.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
10-11	.0	.6	1.1	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
12-13	.0	.0	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDEX	8.7	7.6	12.1	8.9	3.6	1.1	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	3
TOTAL	59	162	214	131	47	19	9	1	1	0	0	0	0	0	0	0	0	0	0	644	3
PCT	9.2	25.2	33.2	20.3	7.3	3.0	1.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AUGUST

AREA 0019 DKHOTSK SEA SW
51.9N 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.9	1.1	8.8	.0	.0	.0	.0	11.8	.0	.0	22.5	1.1	.0	1.1	63.5
NE	12.2	1.1	8.8	.0	.0	.0	.0	22.1	2.3	.0	15.3	.3	.0	1.1	58.9
E	12.3	.0	8.7	.0	.0	.0	.0	21.1	2.6	.0	23.4	.8	.0	1.0	51.2
SE	9.4	.0	5.6	.0	.0	.0	.0	15.0	2.0	.0	26.8	.7	.0	.0	55.5
S	4.3	.5	5.7	.0	.0	.0	.0	10.1	.4	.4	33.9	.0	.0	.0	55.3
SW	5.7	.0	6.4	.0	.0	.0	.0	11.8	2.0	.2	17.9	.2	1.0	1.0	65.8
W	2.1	.0	1.2	.0	.0	.0	.0	3.4	.0	.0	19.0	.9	.0	.0	76.7
NW	.0	.0	1.9	.0	.0	.0	.0	1.9	6.4	.0	23.4	.0	1.3	.0	67.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6	.0	1.5	.0	.0	.0	.0	6.2	6.2	.0	26.2	.0	.0	.0	61.5
TOT PCT	6.0	.3	5.7	.0	.0	.0	.0	11.9	2.0	.1	24.6	.4	.2	.4	60.4
TOT OBS:	951														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	5.5	.4	3.7	.0	.0	.0	.0	9.5	1.5	.4	26.0	.4	.0	.4	61.9
06009	5.7	.0	3.9	.0	.0	.0	.0	9.6	.9	.0	26.1	.9	.4	.4	61.7
12015	4.7	.4	7.3	.0	.0	.0	.0	12.6	1.6	.0	24.4	.0	.0	.8	60.6
18021	7.5	.4	8.0	.0	.0	.0	.0	15.5	4.0	.0	23.5	.4	.4	.0	56.2
TOT PCT TOT OBS:	5.8 983	.3	5.7	.0	.0	.0	.0	11.7	1.9	.1	25.0	.4	.2	.4	60.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	5.1	3.2	.6	.0	.0		9.8	10.8		12.3	11.9	9.4	8.0	7.2	11.3	9.9	8.5
NE	1.1	4.0	2.9	.6	.1	.0		8.7	10.9		8.5	5.1	8.9	7.1	10.4	8.9	10.1	4.7
E	.7	3.2	3.2	1.4	.1	.0		8.7	13.2		11.8	2.5	9.1	6.3	8.8	5.6	10.1	4.7
SE	1.6	5.6	5.1	1.4	.2	.0		13.9	11.7		12.4	12.3	10.1	23.7	13.5	14.5	15.1	19.3
S	2.6	9.8	9.5	.8	.0	.0		22.8	10.5		22.2	36.9	19.6	29.9	21.4	21.8	20.3	24.1
SW	1.1	6.4	4.2	.5	.0	.0		12.2	9.9		11.0	15.3	14.6	5.4	14.3	14.5	9.3	11.8
W	1.1	4.5	3.8	.2	.0	.0		9.6	9.3		9.7	7.6	10.7	9.8	6.6	11.3	11.0	11.8
NW	1.0	2.5	4.2	.4	.0	.0		8.1	12.5		4.9	5.1	11.6	6.3	10.3	8.9	8.0	7.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0		7.2	3.4	6.0	3.6	7.6	3.2	6.3	7.5
TOT OBS	150	378	332	54	4	0	918		10.3		195	39	149	56	185	62	159	53
TOT PCT	16.3	41.2	36.2	5.9	.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	3.2	4.7	1.9	.1	.0			12.2	9.0	8.2	9.6
NE	2.8	4.6	.9	.4	.0			7.7	8.4	10.0	8.7
E	2.4	3.5	2.6	.2	.0			9.8	8.3	8.0	8.7
SE	4.5	6.6	1.7	1.1	.0			12.4	13.8	13.8	16.2
S	6.9	2.0	3.6	.2	.0			22.8	10.5	25.6	21.5
SW	4.5	6.3	1.3	.1	.0			12.2	9.9	12.0	14.4
W	3.9	4.6	1.0	.0	.0			9.6	9.3	9.3	11.2
NW	2.0	3.6	2.3	.1	.0			8.1	12.5	4.9	9.9
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0
CALM	6.2							6.2	.0	6.3	6.5
TOT OBS	335	421	141	21	918			254	205	247	212
TOT PCT	36.5	45.9	15.4	2.3	.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

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AREA 0019 OKHOTSK SEA SW
51.9N 146.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.3	9.1	44.1	33.1	7.1	.4	.0	10.3	100.0	254
06009	5.4	11.2	37.6	38.0	6.3	1.5	.0	10.7	100.0	205
12015	6.5	10.5	43.7	34.8	4.5	.0	.0	9.9	100.0	247
18021	6.6	9.9	38.2	39.6	5.7	.0	.0	10.3	100.0	212
TOT	57	93	378	332	34	4	0	10.3		916
PCT	6.2	10.1	41.2	36.2	5.9	.4	.0	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	1.0	1.4	6.3		6.8
NE	.9	.1	1.7	8.1		7.1
E	.4	.1	1.3	9.3		7.4
SE	.6	.4	2.1	10.0		7.3
S	2.1	1.2	3.6	12.9		6.6
SW	1.5	1.1	2.5	5.8		6.0
W	3.2	.0	1.5	3.6		5.0
NW	.9	.7	2.8	4.8		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.3	.5	1.0	5.1	602	6.2
TOT OBS	68	30	107	397		6.6
TOT PCT	11.3	5.0	17.8	65.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	1.4	.0	.1	.3	1.4	3.2	.6	.4	.0	.0	1.6
NE	1.9	.0	.4	.5	1.6	2.9	1.0	.2	.0	.0	2.1
E	3.1	.0	.5	.6	1.4	2.6	1.1	.6	.0	.0	1.4
SE	3.2	.2	.0	.7	2.3	2.2	2.0	1.0	.0	.0	1.6
S	6.6	.0	.2	.6	1.7	4.0	1.9	.0	.0	.0	4.9
SW	2.0	.0	.2	.2	1.6	2.5	1.5	.0	.2	.0	2.8
W	1.4	.0	.0	.0	.4	1.2	1.0	.3	.0	.2	3.8
NW	2.0	.0	.0	.5	1.6	1.9	.1	.1	1.0	.0	2.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	.2	.0	.2	1.0	1.0	.7	.0	.0	.0	2.5
TOT OBS	144	2	8	21	78	129	59	16	7	1	137
TOT PCT	23.9	.3	1.3	3.5	13.0	21.4	9.8	2.7	1.2	.2	22.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	1.0	1.1	1.1	1.3	1.3	1.3	1.3
= OR >4000	2.6	3.4	3.8	3.8	3.9	3.9	3.9	3.9
= OR >3500	8.3	11.8	12.8	12.8	12.9	13.1	13.1	13.1
= OR >2000	15.4	29.6	33.4	34.0	34.4	34.5	34.5	34.5
= OR >1000	19.8	39.8	45.2	46.6	47.1	47.5	47.5	47.5
= OR >600	20.6	42.6	48.4	50.1	50.6	51.1	51.1	51.1
= OR >300	20.8	42.9	49.3	51.2	51.7	52.5	52.5	52.5
= OR >150	20.9	43.2	49.6	51.6	52.0	52.9	52.9	52.9
= OR >0	21.1	44.8	53.2	56.6	57.6	64.6	74.8	77.6
TOTAL	129	274	325	346	352	395	457	474

TOTAL NUMBER OF OBS: 611

PCT FREQ NH <5/8: 22.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.7	2.3	2.7	2.3	3.1	3.1	5.4	7.5	40.3	22.3	682

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AUGUST

AREA 0019 OKHOTSK SEA SW
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.5	.3	.7	.5	.2	.0	.0	.0	.0	2.3	
	NO PCP	1.0	.9	2.1	2.7	5.6	1.3	.9	1.3	.0	1.3	17.0	
	TOT %	1.2	1.3	2.4	3.4	6.0	1.5	.9	1.3	.0	1.3	19.4	
1/2<1	PCP	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.0	.2	.2	.3	.1	.0	.0	.1	1.2	
	TOT %	.2	.1	.0	.2	.3	.3	.1	.0	.0	.1	1.4	
1<2	PCP	.1	.2	.3	.4	.4	.2	.0	.0	.0	.0	1.7	
	NO PCP	.3	.3	.5	.2	.6	.3	.1	.3	.0	.0	2.4	
	TOT %	.4	.5	.8	.6	1.0	.5	.1	.3	.0	.0	4.1	
2<5	PCP	.6	.5	1.0	.4	.3	.3	.1	.0	.0	.0	3.2	
	NO PCP	.6	.8	.6	1.2	1.6	.4	.6	.7	.0	.5	7.1	
	TOT %	1.2	1.3	1.5	1.6	1.9	.8	.7	.7	.0	.5	10.3	
5<10	PCP	.3	.6	.4	.5	1.0	.5	.2	.1	.0	.4	3.9	
	NO PCP	2.8	2.3	2.9	3.0	4.7	1.8	1.7	1.7	.0	1.4	22.2	
	TOT %	3.1	2.8	3.3	3.4	5.7	2.3	1.9	1.8	.0	1.8	26.2	
10+	PCP	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	3.4	3.1	2.1	5.0	7.3	5.3	4.7	4.2	.0	3.2	38.2	
	TOT %	3.4	3.2	2.3	5.1	7.3	5.3	4.7	4.2	.0	3.2	38.6	
TOT OBS													
TOT PCT													
		9.5	9.3	10.3	14.3	22.3	10.7	8.4	8.3	.0	6.9	100.0	940

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.2	.3	.4	.9	.7	.2	.1	.0	1.0	4.0	
	4-10	1.3	.5	.4	1.6	2.7	1.8	1.4	.8	.0		10.5	
	11-21	.5	.7	.9	1.2	2.8	.6	.5	.6	.0		7.8	
	22+	.0	.2	.3	.0	.1	.1	.0	.1	.0		.8	
	TOT %	1.9	1.5	1.9	3.2	6.6	3.3	2.1	1.6	.0	1.0	23.1	
1/2<1	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.0	.0	.0	.0	.2	.1	.0	.0		.9	
	11-21	.0	.0	.0	.2	.0	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.2	.1	.0	.3	.5	.3	.1	.0	.0	.1	1.7	
1<2	0-3	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	4-10	.1	.3	.2	.4	.5	.2	.1	.2	.0		1.8	
	11-21	.2	.1	.0	.1	.6	.1	.0	.1	.0		1.4	
	22+	.0	.0	.3	.2	.0	.0	.0	.0	.0		.6	
	TOT %	.3	.5	.6	.7	1.1	.3	.1	.3	.0	.0	4.0	
2<5	0-3	.0	.2	.3	.3	.1	.0	.0	.0	.0	.7	1.5	
	4-10	.1	.7	.3	.6	1.0	.3	.4	.5	.0		4.2	
	11-21	.8	.2	.7	.6	1.0	.5	.2	.1	.0		4.1	
	22+	.0	.3	.4	.1	.0	.0	.1	.0	.0		1.0	
	TOT %	1.2	1.4	1.7	1.6	2.0	.8	.6	.6	.0	.7	10.7	
5<10	0-3	.2	.3	.1	.3	.3	.0	.2	.3	.0	1.5	3.2	
	4-10	1.7	.7	1.2	1.0	2.0	1.2	.6	.3	.0		8.7	
	11-21	.9	.8	1.0	1.2	2.5	1.1	1.1	1.0	.0		9.5	
	22+	.4	.3	.4	.4	.5	.0	.0	.1	.0		2.0	
	TOT %	3.2	2.0	2.8	2.8	5.2	2.3	1.9	1.7	.0	1.5	23.4	
10+	0-3	.3	.3	.1	.7	1.4	.4	.7	.6	.0	2.9	7.3	
	4-10	1.8	1.8	1.2	1.6	3.0	2.7	2.0	.8	.0		14.9	
	11-21	.9	1.1	.5	1.7	2.5	1.7	1.9	2.5	.0		13.0	
	22+	.2	.0	.1	.6	.2	.4	.1	.1	.0		1.9	
	TOT %	3.2	3.2	1.9	4.8	7.1	5.2	4.7	4.0	.0	2.9	37.2	
TOT OBS													
TOT PCT													
		10.0	8.8	8.9	13.5	22.6	12.2	9.5	8.3	.0	6.2	100.0	885

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PERIOD: (PRIMARY) 1939-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	22.2	.5	1.6	2.7	8.1	22.7	9.7	2.7	2.2	.5	73.0	27.0	183
06009	24.2	.0	.7	5.2	9.8	20.9	10.5	2.6	.0	.0	73.9	26.1	153
12015	27.4	.6	.6	3.0	15.9	17.7	8.5	1.8	1.8	.0	77.4	22.6	164
18021	24.0	.0	3.1	3.1	17.8	24.8	9.3	3.1	.0	.0	85.3	14.7	129
TOT	154	2	9	22	79	135	60	16	7	1	485	146	631
PCT	24.4	.3	1.4	3.5	12.5	21.4	9.5	2.5	1.1	.2	76.9	23.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	22.6	2.4	3.5	9.8	19.5	42.2	287
06009	23.1	2.1	4.1	6.6	21.1	43.0	242
12015	23.5	.7	4.5	11.2	28.0	32.1	268
18021	21.0	1.7	6.0	13.7	31.3	26.2	233
TOT	233	18	46	106	255	372	1030
PCT	22.6	1.7	4.5	10.3	24.8	36.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	22.3	26.3	38.5	38.0	23.5	179
06009	24.8	28.2	37.6	38.3	24.2	149
12015	27.2	29.7	41.8	39.9	18.4	158
18021	24.8	28.8	41.6	44.0	14.4	125
TOT	151	172	243	243	125	611
PCT	24.7	28.2	39.8	39.8	20.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.9	.0	5.1	.9	8	6.8
55/59	.0	.0	.9	.9	.0	.9	11.1	17.9	37	31.6
50/54	.0	.0	.0	.0	.9	.9	12.8	45.3	70	59.8
45/49	.0	.0	.0	.0	.0	.0	.0	1.7	2	1.7
TOTAL	0	0	1	1	2	2	34	77	117	100.0
PCT	.0	.0	.9	.9	1.7	1.7	29.1	65.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.9	.0	1.7	.6	1.9	.0	.2	.0	.9
3.2	1.7	.9	4.1	7.7	2.4	7.7	2.4	.0	1.7
1.7	10.3	7.5	15.2	14.3	3.2	2.6	5.1	.0	.0
.0	.9	.6	.2	.0	.0	.0	.0	.0	.0
5.6	13.7	9.0	21.2	22.6	7.5	10.3	7.7	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	73	68	55	48	46	43	55.9	284
06009	75	74	68	55	49	46	41	56.7	246
12015	73	68	63	54	46	44	43	54.3	270
18021	75	73	64	54	46	45	43	54.3	239
TOT	77	73	66	54	48	45	41	55.4	1039

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.5	.0	3.2	35.5	54.8	90	31
06009	.0	.0	6.5	.0	25.8	67.7	92	31
12015	.0	.0	.0	4.3	21.7	73.9	94	23
18021	.0	.0	.0	.0	31.3	68.8	94	32
TOT	0	2	2	2	34	77	92	117

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	3	.1	.4
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	4	.0	.5
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
14/16	.0	.0	.0	.1	.1	.7	.5	.6	.2	.0	19	.7	1.6
11/13	.0	.0	.1	.5	.5	1.1	1.2	.6	.5	.0	37	.9	3.5
9/10	.0	.0	.2	.3	.5	1.8	.4	.2	.0	.0	29	.7	2.7
7/8	.0	.0	.4	1.7	1.1	1.5	.5	.1	.0	.0	44	1.4	3.8
6	.0	.1	.2	.5	.7	.2	.0	.4	.0	.0	18	.8	1.3
5	.0	.2	1.0	2.9	2.1	.6	.6	.0	.0	.0	62	2.7	4.7
4	.0	.0	1.2	3.2	2.6	.6	.2	.0	.0	.0	66	2.0	5.8
3	.0	.0	.5	1.2	1.1	.1	.0	.0	.0	.0	24	1.0	1.9
2	.0	.1	1.9	7.1	3.2	.7	.0	.0	.0	.0	110	4.2	8.9
1	.0	.0	.7	2.0	1.9	.0	.1	.0	.0	.0	40	1.0	3.8
0	.0	.3	3.9	9.0	1.5	.8	.0	.0	.0	.0	132	3.7	12.0
-1	.0	.0	2.6	1.8	.5	.2	.0	.0	.0	.0	43	2.1	3.0
-2	.1	.6	4.5	3.7	1.0	.1	.0	.0	.0	.0	84	1.9	8.1
-3	.1	.0	1.1	1.0	.7	.0	.0	.0	.0	.0	24	.6	2.3
-4	.1	.1	2.3	.8	.2	.0	.0	.0	.0	.0	30	1.1	2.5
-5	.0	.8	1.2	.8	.0	.1	.0	.0	.0	.0	25	.6	2.4
-6	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	6	.1	.6
-7/-8	.1	1.1	.8	.2	.0	.0	.0	.0	.0	.0	19	.7	1.5
-9/-10	.0	.6	.2	.0	.4	.0	.0	.0	.0	.0	10	.4	.8
-11/-13	.2	.7	.1	.0	.0	.0	.0	.0	.0	.0	9	.1	1.0
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	6	41	197	313	152	73	30	18	10	1	841	227	614
PCT	.7	4.9	23.4	37.2	18.1	8.7	3.6	2.1	1.2	.1	100.0	27.0	73.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.0	.0	.0	.0	2.4	.3	1.7	.0	.0	.0	.0	2.0
1-2	.3	2.8	.6	.0	.0	.0	3.7	.0	2.3	1.4	.0	.0	.0	3.7
3-4	.0	1.1	1.1	.0	.0	.0	2.2	.0	.3	.9	.0	.0	.0	1.2
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.8	.6	.0	.0	1.5
7	.0	.0	.3	.5	.0	.0	.8	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.9	3.2	.8	.0	.0	10.7	.3	4.3	3.2	1.6	.3	.0	9.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.1	.0	.0	.0	.0	2.6	.5	2.7	.0	.0	.0	.0	3.2
1-2	.0	1.1	1.3	.0	.0	.0	2.4	.0	.9	2.0	.0	.0	.0	3.0
3-4	.0	.0	.8	.3	.0	.0	1.1	.0	.6	1.7	.0	.0	.0	2.3
5-6	.0	.0	.5	.5	.0	.0	1.0	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	1.3	.6	.0	.0	1.9	.0	.0	.6	1.1	.0	.0	1.8
8-9	.0	.0	.2	.8	.0	.0	1.0	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.2	4.2	2.4	.3	.0	10.5	.5	4.2	5.5	1.2	.0	.0	11.4

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0019 OKHOTSK SEA SW
51.9N 140.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	3.9	.0	.0	.0	.0	5.1	.6	2.8	.0	.0	.0	.0	3.5
1-2	.2	3.0	2.3	.0	.0	.0	5.5	.1	1.7	.7	.0	.0	.0	2.5
3-4	.0	1.0	3.1	.0	.0	.0	4.1	.0	.4	2.3	.0	.0	.0	2.7
5-6	.0	.2	3.1	.3	.0	.0	3.6	.0	.1	1.0	.3	.0	.0	1.3
7	.0	.3	1.4	.0	.0	.0	1.7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.4	9.9	.5	.0	.0	20.2	.8	4.9	4.6	.6	.0	.0	10.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.6	.3	.0	.0	.0	1.3	.1	1.0	.3	.0	.0	.0	1.4	
1-2	.5	1.3	1.8	.0	.0	.0	3.6	.0	.6	1.5	.0	.0	.0	2.1	
3-4	.0	.0	1.4	.2	.0	.0	1.6	.0	.0	1.7	.4	.0	.0	2.0	
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	2.1	.0	.0	.0	2.1	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.9	.0	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	1.9	5.3	.2	.0	.0	8.4	.1	1.6	6.5	.4	.0	.0	8.6	90.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.8	16.7	.6	.0	.0	.0	31.1	
1-2	1.1	13.8	11.6	.0	.0	.0	26.6	
3-4	.0	3.4	13.0	.8	.0	.0	17.2	
5-6	.0	.3	11.3	1.7	.0	.0	13.3	
7	.0	.3	5.1	2.8	.0	.0	8.2	
8-9	.0	.0	.6	1.4	.0	.0	2.0	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.3	.3	.0	.6	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.3	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.0	34.5	42.4	7.6	.6	.0	100.0	354

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	10.4	10.4	7.8	3.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	4
6-7	.0	1.1	1.8	3.1	3.5	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	5
8-9	.0	.3	.6	1.4	1.1	.6	.3	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	31	7
10-11	.0	.5	.0	.2	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
12-13	.0	.0	.5	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	20
INDET	9.6	6.4	13.3	9.0	6.6	2.4	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	4
TOTAL	73	122	174	140	98	34	7	2	2	0	2	0	0	0	0	0	0	0	0	654	4
PCT	11.2	18.7	26.6	21.4	15.0	5.2	1.1	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.7	.7	7.9	.0	.0	.0	.0	11.2	1.6	.0	1.8	.0	.0	.0	85.4
NE	7.1	2.8	7.1	.0	.0	.0	.0	17.0	1.9	.0	7.4	.0	.0	.0	74.0
E	12.6	.0	2.7	.0	.0	.0	.0	15.3	.0	.0	10.4	.0	.0	.0	74.3
SE	8.1	2.4	6.9	.0	.0	.0	.0	17.4	2.4	.0	11.8	.0	1.6	1.6	65.1
S	5.6	.0	4.8	.0	.0	.0	.0	10.4	.5	.0	16.4	.0	.5	.0	71.8
SW	3.5	.0	.8	.0	.0	.0	.0	4.3	.8	.0	3.9	.0	1.5	.8	88.8
W	1.9	1.0	1.0	.0	.0	.0	.0	3.8	1.9	.0	2.4	.0	.0	.0	91.8
NW	7.6	.0	4.1	.0	.0	.0	.0	11.6	4.1	1.0	5.3	.0	.0	.0	78.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	2.8	.0	.0	.0	94.4
TOT PCT	5.5	.7	4.3	.0	.0	.0	.0	10.5	1.5	.2	8.1	.0	.5	.3	78.8
TOT OBS:	958														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.7	.4	5.4	.0	.0	.0	.0	10.4	1.1	.4	6.8	.0	.4	.4	80.5
06009	3.6	.8	2.8	.0	.0	.0	.0	7.3	1.2	.0	9.7	.0	.4	.4	81.0
12015	6.7	1.1	2.6	.0	.0	.0	.0	10.4	1.5	.0	7.1	.0	1.1	.4	79.5
18021	6.7	.4	6.2	.0	.0	.0	.0	13.3	2.7	.4	9.8	.0	.0	.4	73.3
TOT PCT	5.4	.7	4.2	.0	.0	.0	.0	10.3	1.6	.2	8.2	.0	.5	.4	78.8
TOT OBS:	1020														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	5.1	4.3	1.4	.1	.0		11.8	12.6	10.8	.0	9.9	20.8	14.8	5.3	12.4	6.3	
NE	.4	3.2	2.7	1.0	.3	.0		7.6	14.2	9.3	.0	7.4	4.2	7.6	2.6	6.5	15.6	
E	.1	2.3	1.8	1.8	.1	.0		6.1	15.7	7.8	.0	5.5	.0	6.9	2.6	5.0	9.4	
SE	.6	4.1	5.8	2.7	.4	.0		13.6	15.9	9.9	31.7	16.6	18.1	13.9	26.3	11.8	6.3	
S	.5	7.3	11.9	2.7	.4	.0		22.9	14.4	21.1	25.0	22.0	48.6	21.4	39.5	24.1	15.6	
SW	.3	4.4	7.4	.7	.3	.0		13.1	13.4	15.8	16.7	9.3	.0	13.3	15.8	14.9	9.4	
W	.4	3.6	4.3	1.9	.8	.0		11.0	16.1	12.3	10.0	13.5	.0	8.1	.0	12.5	15.6	
NW	.4	3.1	5.2	1.9	.1	.0		10.7	15.3	9.1	16.7	11.4	8.3	12.2	7.9	9.4	15.6	
VAP	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	3.9	.0	4.6	.0	1.7	.0	3.4	6.3	
TOT OBS	59	297	395	127	22	0	900		14.1	230	15	197	18	229	19	176	16	
TOT PCT	6.6	33.0	43.9	14.1	2.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.5	5.2	2.7	.2	.1		11.8	12.6	10.1	10.8	14.1	11.8		
NE	1.4	3.4	1.5	.8	.0		7.6	14.2	8.8	7.1	7.3	7.3		
E	1.4	2.1	2.3	.4	.0		6.1	15.7	7.9	5.0	6.6	5.3		
SE	2.2	5.2	4.4	1.6	.1		13.6	15.9	11.2	16.7	14.8	11.3		
S	3.4	11.4	7.0	1.0	.1		22.9	14.4	21.3	24.2	22.8	23.4		
SW	2.4	6.8	3.7	.3	.0		13.1	13.4	15.8	8.5	13.5	14.5		
W	1.7	5.1	2.7	1.3	.2		11.0	16.1	12.1	12.3	7.5	12.8		
NW	1.9	3.9	4.0	.9	.0		10.7	15.3	9.6	11.2	11.9	9.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.2						3.2	.0	3.7	4.2	1.6	3.6		
TOT OBS	190	393	254	58	5	900		14.1	245	215	248	192		
TOT PCT	21.1	43.7	28.2	6.4	.6		100.0		100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	24-47				
00003	3.7	2.0	29.8	46.5	15.5	2.4	.0	14.8	100.0	245
06009	4.2	4.2	32.1	40.0	17.2	2.3	.0	14.2	100.0	215
12015	1.6	3.2	37.5	46.0	8.9	2.8	.0	13.5	100.0	248
18021	3.6	4.2	32.3	42.2	15.6	2.1	.0	14.0	100.0	192
TOT	29	30	297	395	127	22	0	14.1		900
PCT	3.2	3.3	33.0	43.9	14.1	2.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.3	1.4	2.7	4.5		4.6
NE	.4	.7	1.5	5.0		6.9
E	.6	.4	1.9	3.1		6.5
SE	1.2	1.2	3.2	6.7		6.4
S	6.3	1.6	4.3	8.5		5.0
SW	7.1	1.4	2.3	3.3		3.4
W	4.4	2.3	2.5	2.7		3.9
NW	2.6	1.6	2.9	3.3		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.0	.3	1.7	.4		3.7
TOT OBS	215	80	171	279	745	4.9
TOT PCT	28.9	10.7	23.0	37.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.0	.3	1.6	4.0	.3	.1	.0	.1	6.1	
NE	.6	.1	.3	.0	1.9	3.2	.0	.1	.0	.0	1.3	
E	.8	.1	.0	.0	1.2	1.5	.8	.1	.1	.0	1.2	
SE	1.2	.1	.3	.7	2.3	2.6	.6	.1	.1	.0	4.3	
S	2.8	.0	.1	1.0	2.3	3.1	1.2	.3	.3	.0	9.3	
SW	.7	.0	.0	.3	.5	1.6	.8	.1	.0	.3	9.9	
W	.1	.0	.0	.0	1.4	2.2	.6	.3	.1	.1	6.9	
NW	.1	.0	.1	.3	1.7	2.6	.9	.0	.0	.0	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.4	.7	.1	.3	.1	.0	2.6	
TOT OBS	52	3	6	19	100	159	40	11	7	4	344	745
TOT PCT	7.0	.4	.8	2.6	13.4	21.3	5.4	1.5	.9	.5	46.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
>3500	6.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4
>2000	16.3	26.1	27.7	28.2	28.6	28.8	29.0	29.0
>1000	21.0	35.4	39.5	40.4	40.9	41.6	42.0	42.0
>600	21.2	36.7	41.7	42.9	43.5	44.1	44.7	44.7
>300	21.4	37.3	42.6	43.8	44.4	45.0	45.6	45.6
>150	21.6	37.6	42.9	44.0	44.7	45.4	45.9	45.9
>0	22.0	38.4	44.7	47.1	47.9	49.9	52.6	53.2
TOTAL	171	298	347	366	372	388	409	413

TOTAL NUMBER OF OBS: 777

PCT FREQ NH <5/8: 46.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.2	5.0	6.8	5.8	5.3	4.4	5.4	9.2	30.2	857

SEPTEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

AREA 0019 OKHOTSK SEA SW
51.9N 140.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.1	.4	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.2	.3	.2	1.1	2.3	.5	.3	.0	.0	.1	5.0	
	TOT %	.3	.4	.3	1.5	2.3	.5	.3	.0	.0	.1	5.7	
1/2<1	PCP	.1	.0	.0	.3	.3	.0	.2	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.0	.5	.3	.1	.0	.2	.0	.0	1.2	
1<2	PCP	.3	.1	.2	.3	.4	.3	.1	.3	.0	.0	2.1	
	NO PCP	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	.7	
	TOT %	.3	.2	.4	.6	.5	.4	.1	.3	.0	.0	2.8	
2<5	PCP	.4	.6	.5	.7	.5	.2	.2	.3	.0	.1	3.5	
	NO PCP	.4	.7	.2	1.3	1.2	.1	.2	.8	.0	.0	4.7	
	TOT %	.8	1.2	.7	1.9	1.7	.3	.4	1.1	.0	.1	8.2	
5<10	PCP	.9	.7	.2	.5	1.2	.1	.1	.3	.0	.0	3.5	
	NO PCP	2.4	1.9	.9	2.0	5.6	2.7	2.0	2.8	.0	.3	20.7	
	TOT %	2.9	2.5	1.1	2.6	6.8	2.8	2.2	3.0	.0	.3	24.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	7.3	4.0	3.2	5.8	11.5	9.5	7.9	5.6	.0	3.3	58.0	
	TOT %	7.3	4.0	3.2	5.8	11.5	9.5	7.9	5.6	.0	3.3	58.0	
TOT OBS													952
TOT PCT		11.7	8.4	5.6	12.8	23.0	13.6	10.8	10.2	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.3	
	4-10	.1	.2	.3	.8	1.6	.1	.3	.3	.0		3.7	
	11-21	.3	.1	.1	.4	1.0	.6	.5	.7	.0		3.7	
	22+	.0	.1	.0	.6	.3	.1	.0	.0	.0		1.1	
	TOT %	.5	.5	.5	1.8	2.9	.8	.9	1.0	.0	.1	8.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.2	.1	.1	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.3	.2	.0	.0	.1	.0		.6	
	TOT %	.1	.0	.0	.5	.3	.1	.0	.2	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.2	.0	.1	.1	.1	.0	.0	.0	.0		.6	
	11-21	.1	.1	.0	.3	.2	.1	.0	.1	.0		1.0	
	22+	.0	.0	.3	.1	.2	.0	.1	.2	.0		1.0	
	TOT %	.3	.1	.4	.6	.6	.1	.1	.3	.0	.0	2.7	
2<5	0-3	.1	.1	.0	.0	.0	.0	.1	.1	.0	.1	.6	
	4-10	.2	.6	.1	.4	.3	.0	.1	.3	.0		2.0	
	11-21	.4	.4	.3	.8	1.5	.5	.1	.2	.0		4.2	
	22+	.1	.3	.4	.8	.2	.0	.1	.3	.0		2.4	
	TOT %	.8	1.4	.9	2.0	2.0	.5	.4	1.0	.0	.1	9.1	
5<10	0-3	.3	.1	.1	.0	.1	.1	.0	.1	.0	.1	.9	
	4-10	.6	.9	.5	1.2	1.3	.6	.6	.8	.0		6.7	
	11-21	1.0	.6	.2	1.1	4.1	1.5	.4	1.6	.0		10.6	
	22+	1.0	.8	.3	.4	1.2	.2	.8	.3	.0		5.0	
	TOT %	2.9	2.4	1.2	2.7	6.7	2.5	1.9	2.8	.0	.1	23.1	
10+	0-3	.1	.1	.1	.6	.3	.1	.2	.2	.0	2.9	4.6	
	4-10	3.6	1.5	1.2	1.5	4.0	3.6	2.4	1.6	.0		19.3	
	11-21	2.6	1.6	1.2	3.2	5.3	4.9	3.4	2.4	.0		24.6	
	22+	.5	.1	.7	.6	1.1	.6	1.6	1.1	.0		8.3	
	TOT %	6.7	3.3	3.1	5.8	10.8	9.3	7.7	5.2	.0	2.9	54.9	
TOT OBS													886
TOT PCT		11.4	7.7	6.0	13.5	23.2	13.2	11.0	10.6	.0	3.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.4	.8	1.3	2.9	13.3	24.6	4.6	2.9	.4	.8	57.1	42.9	240
06009	6.2	.0	1.0	3.3	11.5	20.1	4.8	1.4	1.0	1.0	50.2	49.8	209
12015	6.9	.5	1.0	1.5	12.4	17.3	5.9	.5	.0	.0	46.0	54.0	202
18021	12.2	.0	.0	2.7	14.3	19.0	5.4	1.4	2.7	.0	57.8	42.2	147
TOT	98	3	7	21	102	164	41	13	7	4	420	378	798
PCT	7.3	.4	.9	2.6	12.8	20.6	5.1	1.6	.9	.5	52.6	47.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.4	.4	2.8	7.4	22.1	60.0	285
06009	10.1	1.6	2.7	5.1	20.6	59.9	257
12015	7.6	1.4	2.2	7.9	26.6	54.3	278
18021	6.1	.9	5.7	14.0	25.4	47.8	228
TOT	82	11	34	88	248	585	1048
PCT	7.8	1.0	3.2	8.4	23.7	55.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.1	9.8	19.1	39.6	41.3	235
06009	6.3	10.7	17.0	37.0	48.1	206
12015	7.1	10.2	17.3	31.1	51.5	196
18021	12.1	13.6	25.7	35.0	39.3	140
TOT	56	84	150	275	352	777
PCT	7.2	10.8	19.3	35.4	45.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	1.0	.0	.0	.0	.0	.0	.0	1	1.0
60/64	.0	1.0	.0	.0	1.0	.0	1.0	.0	3	3.1
55/59	.0	.0	.0	.0	1.0	3.1	9.2	9.2	22	22.4
50/54	.0	.0	2.0	.0	5.1	4.1	30.6	20.4	61	62.2
45/49	.0	.0	.0	.0	1.0	2.0	5.1	3.1	11	11.2
TOTAL	0	2	2	0	8	9	45	32	98	100.0
PCT	.0	2.0	2.0	.0	8.2	9.2	45.9	32.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0
2.6	1.3	3.1	2.6	8.4	1.3	1.0	2.3	.0	.0
7.1	5.9	7.9	13.3	10.2	4.1	5.1	5.6	.0	3.1
2.6	1.5	.0	.0	.0	.0	2.8	4.3	.0	.0
13.3	9.7	12.0	16.8	18.6	5.4	8.9	12.2	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	67	63	53	45	37	32	52.9	275
06009	72	66	63	54	46	43	43	53.7	251
12015	73	65	60	52	41	37	32	51.3	269
18021	66	63	59	50	41	37	34	50.6	226
TOT	73	65	62	52	45	37	32	52.2	1021

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.6	10.7	7.1	39.3	39.3	85	28
06009	.0	.0	12.0	12.0	52.0	24.0	85	25
12015	.0	10.0	5.0	.0	50.0	35.0	84	20
18021	.0	4.0	4.0	16.0	44.0	32.0	84	25
TOT	0	4	8	9	45	32	85	98

SEPTEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	4	.1	.4
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	3	.1	.3
11/13	.0	.0	.0	.0	.0	.0	.1	.4	.9	.0	.1	.0	12	.1	1.4
9/10	.0	.0	.0	.0	.0	.4	.3	.1	.9	.3	.1	.0	16	.0	2.0
7/8	.0	.0	.0	.0	.0	.5	.8	.9	1.4	.1	.0	.0	29	.2	3.4
6	.0	.0	.0	.0	.1	.4	.6	.4	.0	.1	.0	.0	13	.0	1.6
5	.0	.0	.0	.0	.3	.9	1.5	1.1	1.6	.0	.0	.1	44	.3	5.2
4	.0	.0	.0	.0	.8	2.4	2.0	.8	1.0	.0	.0	.0	55	1.3	5.6
3	.0	.0	.0	.0	.0	.8	1.0	1.0	.0	.1	.0	.0	23	.0	2.9
2	.0	.0	.0	.1	2.0	2.6	3.9	1.5	.0	.0	.0	.0	81	.4	9.8
1	.0	.0	.0	.0	.6	1.6	2.1	.9	.1	.0	.0	.0	43	.4	5.0
0	.0	.0	.0	.0	2.5	4.8	5.6	2.3	.1	.0	.1	.0	132	1.4	15.1
-1	.0	.0	.0	.0	1.5	2.1	6.5	.3	.0	.1	.0	.0	44	.0	5.5
-2	.0	.0	.0	.1	3.3	4.0	3.8	.4	.1	.0	.0	.0	93	.9	10.7
-3	.0	.0	.0	.1	.4	1.3	1.0	.3	.0	.0	.0	.0	24	.1	2.9
-4	.0	.0	.0	.5	2.6	1.5	1.3	.1	.0	.0	.0	.0	48	.4	5.6
-5	.0	.0	.3	.3	2.8	2.4	.4	.3	.0	.0	.0	.0	50	.0	6.3
-6	.0	.0	.0	.1	.1	.4	.1	.1	.0	.0	.0	.0	7	.0	.9
-7/-8	.0	.0	.1	1.1	.5	.3	.0	.0	.0	.6	.0	.0	25	.3	2.8
-9/-10	.0	.0	.5	.5	1.1	.3	.5	.0	.1	.0	.0	.0	25	.0	3.1
-11/-13	.0	.0	.5	.4	.9	.3	.3	.0	.0	.0	.0	.0	18	.0	2.3
-14/-16	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.5
-17/-19	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	4	.0	.5
-20/-22	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	2	2	14	26	162	217	226	86	52	8	3	2	800	47	753
PCT	.3	.3	1.8	3.3	20.3	27.1	28.3	10.8	6.5	1.0	.4	.3	100.0	5.9	94.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	<1	.2	1.0	.0	.0	.0	.0	1.2
1-2	.0	2.9	1.4	.0	.0	.0	4.2	1-2	.0	2.0	.6	.0	.0	.0	2.5
3-4	.0	.8	2.8	.4	.0	.0	3.9	3-4	.0	.2	1.0	.0	.0	.0	1.2
5-6	.0	.0	.6	.4	.0	.0	.9	5-6	.0	.2	1.1	.0	.0	.0	1.3
7	.0	.0	.3	1.4	.2	.0	1.9	7	.0	.0	.9	.3	.0	.0	1.1
8-9	.0	.0	.2	.0	.0	.0	.2	8-9	.0	.2	.0	.4	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.8	5.2	2.1	.2	.0	12.7	TOT PCT	.2	3.5	3.4	.9	.4	.0	8.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.6	<1	.1	.8	.0	.0	.0	.0	.8
1-2	.0	.7	.7	.0	.0	.0	1.4	1-2	.4	1.9	.3	.0	.0	.0	2.6
3-4	.0	.2	.8	.0	.0	.0	1.0	3-4	.0	.1	2.2	.3	.0	.0	2.5
5-6	.0	.0	.6	.4	.0	.0	1.0	5-6	.0	.0	2.0	.2	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.2	.0	.0	.2	8-9	.0	.0	.6	.2	.1	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.1	.4	.5	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.1	1.1	.2	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	2.1	.6	.0	.0	5.2	TOT PCT	.5	2.7	5.6	2.1	.7	.0	11.5

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.0	.0	.0	.0	2.1	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	2.3	2.4	.0	.0	.0	4.6	.0	2.8	1.8	.0	.0	.0	4.6
3-4	.0	.9	3.6	.4	.0	.0	4.8	.0	.8	2.8	.3	.0	.0	3.8
5-6	.0	.0	2.7	.6	.0	.0	3.3	.0	.2	1.2	.2	.2	.0	1.8
7	.0	.0	1.4	.6	.2	.0	2.2	.0	.0	1.0	.3	.1	.0	1.2
8-9	.0	.0	.4	.0	.2	.0	.5	.0	.0	.5	.0	.1	.0	.5
10-11	.0	.0	.2	.6	.2	.0	.9	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.4	.2	.2	.0	.7	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	10.9	2.7	.7	.0	19.5	.1	4.7	7.7	.9	.5	.0	13.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.9	.0	.0	.0	.0	1.3	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.5	1.1	.0	.0	.0	2.6	.0	.9	.5	.0	.0	.0	1.4	
3-4	.0	1.1	3.2	.4	.0	.0	4.6	.0	.5	2.3	.7	.0	.0	3.4	
5-6	.0	.0	1.5	.4	.0	.0	1.9	.0	.4	1.7	.7	.0	.0	2.8	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5	1.2	.0	.0	1.6	
8-9	.0	.0	.0	1.0	.2	.0	1.2	.0	.2	.5	.0	.0	.0	.7	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.2	.0	.6	
12	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.5	5.7	2.8	1.0	.0	13.3	.0	2.5	5.4	3.1	.2	.0	11.1	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	8.8	.0	.0	.0	.0	14.2	
1-2	.4	14.9	8.6	.0	.0	.0	23.9	
3-4	.0	4.4	18.5	2.2	.0	.0	25.1	
5-6	.0	.8	11.2	2.8	.2	.0	15.1	
7	.2	.0	4.4	3.8	.4	.0	8.8	
8-9	.0	.4	2.0	1.8	.4	.0	4.6	
10-11	.0	.0	.2	2.0	.8	.0	3.0	
12	.0	.0	.2	.8	.2	.0	1.2	
13-16	.0	.0	.4	1.2	1.4	.0	3.0	
17-19	.0	.0	.0	.4	.2	.0	.6	
20-22	.0	.0	.4	.0	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TCT PCT	6.0	29.3	46.0	15.1	3.6	.0	100.0	498

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	8.4	9.4	9.3	3.3	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	279
6-7	.0	.5	3.1	3.9	4.0	1.7	1.9	.7	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	139
8-9	.0	.2	1.2	1.3	.2	1.1	.8	.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	54
10-11	.0	.5	.0	.1	.8	.6	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22
12-13	.0	.0	.7	.4	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
>13	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
INDET	3.8	3.7	13.2	6.5	5.5	3.8	1.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	329
TOTAL	39	112	232	181	74	74	45	14	18	3	3	0	0	0	0	0	0	0	0	0	841
PCT	4.6	13.3	27.6	21.5	14.3	8.8	5.4	1.7	2.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974

OCTOBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	12.3	.6	.6	.6	5.3	.0	.0	18.7	3.6	.0	.0	.4	.0	2.6	74.6
NE	22.3	1.6	8.6	.0	5.1	.0	.0	35.9	2.3	.0	1.6	.0	1.6	.0	58.6
E	9.8	.0	4.7	.0	.0	.0	.0	14.5	7.5	.0	8.2	.0	.0	.0	69.8
SE	10.3	.0	3.9	.0	.0	.0	.0	14.2	2.5	.0	17.6	.0	.0	.0	65.6
S	6.5	.0	3.0	.0	.0	.0	.0	9.4	2.6	.0	8.9	.0	1.3	.0	77.9
SW	6.4	.0	3.9	.0	.2	.0	.0	10.6	3.0	.2	6.3	.0	.2	.0	80.0
W	3.9	.4	1.0	.0	5.2	.0	.0	10.5	.7	.7	4.4	.0	.0	1.2	82.8
NW	4.6	.9	1.5	.0	5.1	.0	.0	11.5	2.2	.1	1.2	.1	.8	2.6	81.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.8	.0	.0	.0	84.2
TOT PCT	7.8	.4	2.5	.1	3.2	.0	.0	13.6	2.6	.2	5.0	.1	.4	1.2	77.0
TOT OBS:	1159														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0003	7.3	.3	3.2	.0	1.9	.0	.0	12.6	.9	.3	5.7	.0	.3	.9	79.5
0609	6.9	.0	.9	.3	3.1	.0	.0	10.9	3.4	.0	5.3	.3	.0	1.3	78.8
1205	8.3	.3	2.4	.0	3.9	.0	.0	14.5	3.9	.3	4.7	.0	.9	1.2	74.5
18021	9.1	1.4	2.8	.0	2.8	.0	.0	15.4	1.4	.0	4.2	.0	.4	1.4	77.2
TOT PCT	7.9	.5	2.3	.1	2.9	.0	.0	13.3	2.5	.2	5.0	.1	.4	1.2	77.4
TOT OBS:	1259														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	3.7	7.4	3.4	.7	.2		15.7	17.9		15.3	19.4	17.0	15.0	15.0	20.0	14.5	19.0
NE	.2	1.1	2.6	1.3	.6	.0		5.9	18.7		5.7	2.8	6.1	4.0	6.2	2.5	6.4	4.8
E	.2	1.6	1.7	1.8	.3	.0		5.6	17.7		5.1	5.6	4.8	10.0	7.1	10.0	4.9	.0
SE	.0	2.0	3.2	1.9	.6	.0		7.8	18.6		7.3	13.9	9.5	6.0	7.6	2.5	7.7	.0
S	.5	3.4	5.2	2.2	.3	.0		11.5	15.4		11.8	16.7	10.1	14.0	11.6	7.5	12.8	7.1
SW	.4	4.0	5.8	1.6	.3	.1		12.3	14.7		13.3	11.1	9.8	10.0	11.2	12.5	15.9	7.1
W	.3	3.7	7.6	4.6	1.1	.2		17.5	18.7		19.0	4.2	19.7	10.0	16.4	12.5	17.1	16.7
NW	.3	4.8	9.4	6.1	1.5	.2		22.4	18.9		20.5	26.4	21.5	31.0	23.2	32.5	20.1	45.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		2.0	.0	1.6	.0	1.8	.0	.4	.0
TOT OBS	38	262	463	249	59	7	1078		17.4		253	18	243	25	272	20	226	21
TOT PCT	3.5	24.3	42.9	23.1	5.5	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.4	6.3	6.1	1.4	.4			15.7	17.9		15.6	16.8	15.3	14.9
NE	.8	2.1	1.9	1.0	.2			5.9	18.7		5.5	5.9	5.9	6.3
E	.7	2.3	1.8	.7	.1			5.6	17.7		5.2	5.3	7.3	4.5
SE	.8	2.9	2.9	1.1	.1			7.8	18.6		7.7	9.1	7.3	7.1
S	1.8	4.7	4.2	.7	.2			11.5	15.4		12.1	10.4	11.3	12.3
SW	2.6	5.4	3.0	1.0	.2			12.3	14.7		13.2	9.8	11.3	15.2
W	1.6	6.2	6.6	2.6	.4			17.5	18.7		18.0	18.8	16.1	17.1
NW	2.2	7.6	8.2	3.7	.6			22.4	18.9		20.8	22.4	23.8	22.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.4							1.4	.0		1.8	1.5	1.7	.4
TOT OBS	144	404	374	132	24	1078			17.4		271	268	292	247
TOT PCT	13.4	37.5	34.7	12.2	2.2			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974

OCTOBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.8	1.8	23.6	45.0	22.9	3.7	1.1	17.2	100.0	271
0600	1.5	2.6	19.8	39.6	31.0	5.6	.0	18.4	100.0	268
1200	1.7	2.4	27.4	43.2	17.5	7.2	.7	16.7	100.0	292
1800	.4	1.6	26.3	44.1	21.5	5.3	.8	17.4	100.0	247
TOT	15	23	262	463	249	59	7	17.4		1078
PCT	1.4	2.1	24.3	42.9	23.1	5.5	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	1.4	4.8	6.4		5.9
NE	.5	.2	1.0	3.4		6.6
E	.6	.2	.9	3.5		6.7
SE	.3	.8	1.0	5.8		6.9
S	3.6	1.3	2.1	4.7		4.8
SW	4.3	1.3	3.6	3.8		4.5
W	3.8	1.7	6.6	6.6		5.4
NW	3.2	2.3	6.9	9.2		5.9
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.4	.6		4.6
TOT OBS	161	82	231	372	846	5.6
TOT PCT	19.0	9.7	27.3	44.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.0	.4	.6	2.3	3.7	2.0	.0	.0	.0	4.6	
NE	.5	.0	.3	.1	1.5	.9	.6	.1	.0	.0	1.0	
E	.5	.0	.2	.2	1.4	1.2	.4	.1	.2	.0	1.0	
SE	1.8	.1	.4	.4	1.7	1.7	.1	.0	.0	.0	1.7	
S	.7	.0	.4	.3	1.7	2.2	.5	.5	.0	.0	5.4	
SW	.6	.1	.1	1.0	.5	2.1	.7	.3	.0	.4	7.2	
W	2.0	.1	.2	.9	1.9	5.1	1.6	.4	.3	.1	6.2	
NW	1.7	.0	.3	1.0	3.5	6.4	1.7	.3	.4	.1	6.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.1	.2	.2	.0	.0	.0	1.1	
TOT OBS	71	3	20	38	124	199	66	15	8	5	291	846
TOT PCT	9.1	.4	2.4	4.5	14.7	23.5	7.8	1.8	.9	.6	34.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.3	1.4	1.4	1.4	1.4	1.4	1.4
>5000	2.3	3.0	3.2	3.2	3.2	3.2	3.2	3.2
>3500	6.4	9.6	10.4	10.4	10.8	10.8	10.8	10.8
>2000	20.3	29.4	32.3	32.9	33.5	33.6	33.6	33.6
>1000	25.5	40.1	45.9	47.3	48.4	48.5	48.6	48.6
>600	27.0	43.7	49.7	51.5	52.7	52.8	52.9	52.9
>300	27.5	44.9	51.5	53.7	54.9	55.0	55.1	55.1
>150	27.6	45.1	51.8	54.0	55.2	55.3	55.5	55.5
>0	27.8	47.1	56.1	59.1	60.6	61.7	63.8	64.4
TOTAL	252	427	509	536	550	560	579	584

TOTAL NUMBER OF OBS: 907

PCT FREQ NM <5/8: 35.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.2	1.6	6.1	4.3	4.6	5.9	9.5	9.5	34.0	1012

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974

OCTOBER

AREA 0019 OKHOTSK SEA SW
51.9N 140.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.1	.1	.1	.0	.0	.1	.4	.0	.0	1.0	
	NO PCP	.0	.1	.5	.9	.3	.3	.2	.1	.0	.2	2.6	
	TOT %	.4	.2	.6	.9	.3	.3	.3	.5	.0	.2	3.6	
1/2<1	PCP	.7	.3	.1	.0	.0	.0	.2	.3	.0	.0	1.5	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.3	
	TOT %	.7	.3	.1	.1	.1	.1	.2	.4	.0	.0	1.8	
1<2	PCP	.3	.4	.0	.1	.1	.3	.5	.4	.0	.0	2.0	
	NO PCP	.2	.0	.1	.2	.4	.1	.1	.2	.0	.0	1.3	
	TOT %	.5	.4	.1	.3	.5	.4	.6	.6	.0	.0	3.3	
2<5	PCP	.7	.8	.4	.7	.4	.3	.5	.8	.0	.0	4.5	
	NO PCP	1.3	.5	.3	1.0	.8	.9	1.1	1.7	.0	.1	7.7	
	TOT %	2.0	1.2	.7	1.7	1.2	1.2	1.6	2.5	.0	.1	12.2	
5<10	PCP	.6	.4	.2	.3	.4	.6	.6	.7	.0	.0	3.9	
	NO PCP	3.6	1.1	1.4	1.3	2.3	2.3	4.0	6.2	.0	.3	22.6	
	TOT %	4.2	1.5	1.6	1.6	2.7	2.9	4.6	6.9	.0	.3	26.5	
10+	PCP	.3	.1	.0	.0	.2	.1	.2	.2	.0	.0	1.1	
	NO PCP	7.6	1.9	2.1	3.1	6.7	7.0	10.2	11.8	.0	1.0	51.4	
	TOT %	7.8	2.0	2.1	3.1	6.9	7.1	10.4	12.0	.0	1.0	52.6	
TOT OBS													1155
TOT PCT		19.6	5.5	5.2	7.7	11.7	12.0	17.7	22.9	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.1	.1	.1	.2	.0	.2	.0		.9	
	11-21	.1	.1	.3	.4	.2	.1	.2	.1	.0		1.5	
	22+	.3	.1	.2	.3	.0	.0	.2	.2	.0		1.4	
	TOT %	.4	.2	.7	.9	.4	.3	.5	.5	.0	.2	3.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.2	.1	.0	.1	.0	.0	.0	.1	.0		.6	
	22+	.6	.2	.1	.1	.0	.1	.2	.1	.0		1.4	
	TOT %	.8	.3	.1	.1	.2	.1	.2	.2	.0	.0	2.1	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.1	.0	.0	.3	.2	.2	.3	.0		1.3	
	22+	.4	.2	.0	.2	.2	.1	.4	.4	.0		2.0	
	TOT %	.5	.4	.0	.2	.5	.4	.7	.7	.0	.0	3.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.3	.1	.1	.2	.2	.5	.2	.5	.0		2.1	
	11-21	1.0	.5	.2	.6	.3	.6	.9	1.1	.0		5.1	
	22+	.8	.7	.3	.8	.6	.1	.5	1.1	.0		5.0	
	TOT %	2.1	1.3	.6	1.6	1.1	1.2	1.7	2.6	.0	.1	12.2	
5<10	0-3	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	
	4-10	1.1	.2	.5	.4	.7	.7	.9	1.0	.0		5.4	
	11-21	2.2	.7	.6	.7	1.5	1.2	1.2	2.3	.0		10.5	
	22+	1.0	.7	.7	.5	.6	.8	2.1	3.3	.0		9.7	
	TOT %	4.3	1.7	1.8	1.6	2.8	2.8	4.2	6.5	.0	.0	25.7	
10+	0-3	.0	.0	.1	.0	.5	.3	.3	.3	.0	1.1	2.5	
	4-10	2.3	.8	1.0	1.4	2.3	2.3	2.3	3.3	.0		15.7	
	11-21	4.2	1.1	.6	1.4	3.0	4.0	5.4	5.2	.0		24.7	
	22+	1.2	.1	.4	.4	1.1	.8	2.7	3.0	.0		9.8	
	TOT %	7.7	2.0	2.1	3.1	6.9	7.4	10.7	11.8	.0	1.1	52.8	
TOT OBS													1023
TOT PCT		15.9	5.9	5.2	7.6	11.9	12.1	17.8	22.4	.0	1.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.4	.0	3.5	6.2	16.7	23.6	7.4	2.7	2.7	.4	68.6	31.4	258
06009	5.0	1.2	1.9	4.2	17.4	30.5	7.7	1.2	.4	.4	69.9	30.1	259
12015	14.9	.0	1.8	2.3	9.5	19.4	5.4	1.8	.0	.9	55.9	44.1	222
18021	10.9	.0	1.0	4.2	14.6	13.5	9.4	1.0	.0	.5	55.2	44.8	192
TOT	81	3	20	40	137	209	69	16	8	5	588	343	931
PCT	8.7	.3	2.1	4.3	14.7	22.4	7.4	1.7	.9	.5	63.2	36.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.2	2.9	2.5	8.9	23.8	59.7	315
06009	3.1	1.9	1.9	11.7	23.5	58.0	324
12015	5.6	1.5	3.8	15.4	29.0	44.7	338
18021	4.2	1.1	4.9	12.3	28.8	48.8	285
TOT	48	23	41	153	331	666	1262
PCT	3.8	1.8	3.2	12.1	26.2	52.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.5	11.5	26.1	44.3	29.6	253
06009	5.1	9.8	22.0	50.0	28.0	254
12015	15.5	18.3	30.0	30.0	39.9	213
18021	11.2	13.9	25.1	32.6	42.2	187
TOT	81	119	203	364	310	907
PCT	8.9	13.1	23.7	40.1	34.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.7	.0	.0	.0	.0	.0	1	.7
50/54	.0	.0	.0	.7	.0	1.4	3.6	3.6	13	9.3
45/49	.0	.0	.0	.7	2.9	8.6	7.9	20.0	56	40.0
40/44	.0	.0	.0	.0	3.6	5.0	5.7	10.7	35	25.0
35/39	.0	.0	.0	.0	.7	1.4	2.9	12.9	25	17.9
30/34	.0	.0	.0	.0	.0	.0	.0	5.7	8	5.7
25/29	.0	.0	.0	.0	.0	.0	.7	.7	2	1.4
TOTAL	0	0	1	2	10	23	29	75	140	100.0
PCT	.0	.0	.7	1.4	7.1	16.4	20.7	53.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
1.3	.2	3.6	2.1	.0	1.4	.0	.0	.0	.7
11.6	5.5	7.5	.2	6.3	5.2	2.1	1.6	.0	.0
4.1	7.5	1.3	.7	2.0	1.4	1.6	6.4	.0	.0
3.6	.2	.5	.2	.0	.7	5.0	7.0	.0	.7
2.7	.7	.0	.0	.0	.0	1.8	.5	.0	.0
.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0
23.2	14.1	12.9	3.2	8.2	8.8	12.0	15.5	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	61	54	43	32	25	23	43.1	303
06009	58	56	52	43	33	24	19	42.9	324
12015	59	54	50	42	30	26	25	41.6	328
18021	65	55	50	41	32	25	20	41.3	295
TOT	65	56	52	43	32	25	19	42.2	1250

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.1	3.6	25.0	10.7	53.6	86	28
06009	.0	.0	13.2	18.4	18.4	50.0	86	38
12015	.0	2.7	8.1	13.5	21.6	54.1	87	37
18021	.0	.0	2.7	10.8	29.7	56.8	89	37
TOT	0	3	10	23	29	75	87	140

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974

TABLE 17

AREA 0019 OKHOTSK SEA SW
51.9N 146.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	3	.1	.2
9/10	.0	.0	.0	.0	.0	.0	.2	.0	.1	.2	.2	.0	.0	7	.4	.3
7/8	.0	.0	.0	.0	.0	.0	.5	.2	.6	.5	.1	.1	.1	21	.0	2.1
6	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.0	.0	4	.0	.4
5	.0	.0	.0	.0	.0	.0	.1	.5	1.0	.3	.0	.0	.0	19	.1	1.8
4	.0	.0	.0	.0	.0	.1	.6	1.9	.6	.3	.0	.0	.0	35	.4	3.1
3	.0	.0	.0	.0	.0	.0	.3	1.0	.7	.3	.0	.0	.0	23	.1	2.2
2	.0	.0	.0	.0	.1	.1	1.6	4.1	1.0	.3	.0	.0	.0	73	.4	6.8
1	.0	.0	.0	.0	.0	.2	.9	.9	.4	.0	.0	.0	.0	24	.2	2.2
0	.0	.0	.0	.0	.0	.9	3.0	4.3	1.6	.3	.0	.0	.0	102	.2	9.9
-1	.0	.0	.0	.1	.0	1.1	1.2	1.7	.7	.1	.0	.0	.0	49	.3	4.5
-2	.0	.0	.0	.1	.2	1.5	2.4	4.0	1.0	.1	.0	.0	.0	94	.6	8.7
-3	.0	.0	.0	.0	.0	1.8	1.8	1.0	.2	.3	.0	.0	.0	51	.1	4.9
-4	.0	.0	.0	.0	.0	.6	2.7	3.9	2.4	.7	.0	.0	.0	104	1.2	9.1
-5	.0	.0	.0	.0	1.1	3.5	2.8	1.6	.3	.1	.0	.0	.0	95	.3	9.1
-6	.0	.0	.0	.0	.6	1.3	.6	1.3	.0	.1	.0	.0	.0	39	.4	3.4
-7/-8	.0	.0	.0	.2	2.1	3.4	2.0	.5	.3	.0	.0	.0	.0	86	.2	8.3
-9/-10	.0	.0	.2	.5	2.4	1.9	.9	.5	.1	.0	.0	.0	.0	65	.2	6.2
-11/-13	.0	.0	.5	.7	1.1	1.9	1.1	.2	.0	.0	.0	.0	.0	55	.0	5.4
-14/-16	.0	.0	.9	1.1	.9	.5	.4	.1	.0	.0	.0	.0	.0	39	.0	3.8
-17/-19	.1	.0	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	11	.1	1.0
-20/-22	.0	.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	10	.0	1.0
-23/-25	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	2	5	23	35	93	214	244	265	95	31	4	3	1	1015	5.2	94.8
PCT	.2	.5	2.3	3.4	9.2	21.1	24.0	26.1	9.4	3.1	.4	.3	.1	100.0	5.2	94.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.2	.0	.0	.0	.6	.2	.5	.0	.0	.0	.0	.7
1-2	.0	1.4	.4	.0	.0	.0	1.8	.0	.2	.5	.0	.0	.0	.7
3-4	.0	.7	1.4	.8	.0	.0	2.8	.0	.2	.9	.0	.0	.0	1.1
5-6	.0	.5	2.5	1.3	.0	.0	4.2	.0	.0	.2	.5	.0	.0	.7
7	.0	.2	1.6	.5	.0	.0	2.2	.0	.0	.3	.3	.0	.0	.7
8-9	.0	.0	.7	.1	.0	.0	.8	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.2	.5	.7	.2	.0	1.6	.0	.0	.1	.2	.0	.0	.3
12	.0	.2	.0	.5	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	7.2	4.2	.5	.0	15.4	.2	.9	2.2	1.2	.2	.0	4.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.5	.0	.0	.0	.0	.6	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.4	.2	.0	.0	.0	.5	.0	.9	.7	.0	.0	.0	1.6
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.1	.2	.0	.0	1.3
5-6	.0	.2	.3	.1	.0	.0	.6	.0	.0	.5	.0	.0	.0	.6
7	.0	.0	.2	.0	.2	.0	.4	.0	.0	.8	.5	.2	.0	1.5
8-9	.0	.0	.0	.3	.1	.0	.5	.0	.0	.4	.7	.1	.0	1.1
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.4	.5	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.2	.2	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	1.0	1.1	.4	.0	3.7	.0	1.8	3.6	2.6	1.1	.0	9.1

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.2	1.0	.0	.0	.0	2.2	.0	.9	1.9	.0	.0	.0	2.8
3-4	.0	.7	1.9	.6	.0	.0	3.2	.2	.9	2.1	.2	.0	.0	3.4
5-6	.0	.3	.9	.5	.0	.0	1.7	.0	.0	.8	.3	.0	.0	1.1
7	.0	.2	.5	.5	.0	.0	1.2	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.3	.2	.1	.0	.6	.0	.0	.5	.4	.0	.0	.9
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.2	.2	.2	.0	.0	.6
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.3	.3	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	4.5	2.7	.5	.0	11.1	.2	2.9	5.9	2.3	.4	.0	11.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.0	.0	.0	.0	.9	.2	1.2	.2	.0	.0	.0	1.6	
1-2	.0	1.3	2.4	.0	.0	.0	3.7	.0	1.2	2.7	.0	.0	.0	4.0	
3-4	.0	.5	2.6	.5	.0	.0	3.5	.0	.9	2.4	.6	.0	.0	3.9	
5-6	.0	.4	1.3	2.1	.0	.0	3.8	.0	.2	2.3	1.6	.0	.0	4.2	
7	.0	.2	1.4	1.7	.3	.0	3.6	.0	.0	1.2	1.6	.2	.0	3.0	
8-9	.0	.0	.8	.9	.1	.0	1.8	.0	.2	.5	.8	.3	.0	1.8	
10-11	.0	.0	.7	.2	.2	.0	1.0	.0	.0	.2	1.2	.2	.0	1.6	
12	.0	.0	.0	.2	.2	.1	.5	.0	.0	.0	.2	.5	.2	.9	
13-16	.0	.0	.2	.2	.3	.2	.8	.0	.0	.0	.8	.3	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.3	
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	3.1	9.3	5.7	1.1	.3	19.7	.2	3.7	9.6	7.0	2.1	.4	22.9	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	5.9	.3	.0	.0	.0	8.9	
1-2	.0	7.6	9.7	.0	.0	.0	17.3	
3-4	.2	4.0	12.7	2.8	.0	.0	19.6	
5-6	.0	1.6	8.9	6.4	.0	.0	17.0	
7	.0	.5	6.4	5.9	.8	.0	13.7	
8-9	.0	.2	3.3	3.3	.8	.0	7.6	
10-11	.0	.3	2.0	4.0	1.0	.0	7.2	
12	.0	.2	.0	1.3	.8	.3	2.6	
13-16	.0	.0	.2	2.1	1.8	.2	4.3	
17-19	.0	.0	.0	.3	.5	.0	.8	
20-22	.0	.0	.0	.2	.2	.2	.5	
23-25	.0	.0	.0	.2	.0	.0	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.2	.0	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	20.3	43.5	26.7	6.1	.7	100.0	607

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	5.7	8.2	6.0	4.7	1.8	1.6	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	296	5
6-7	.1	.5	1.6	2.4	3.6	3.1	1.9	.8	.4	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	159	8
8-9	.0	.0	.5	.7	1.7	2.3	2.1	1.1	1.4	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	105	9
10-11	.0	.2	.2	.2	.6	.3	1.1	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	9
12-13	.0	.0	.5	.4	.2	.5	.7	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	9
>13	.0	.0	.0	.0	.0	.4	.8	.0	1.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	24	13
INDET	2.0	2.8	6.4	7.6	9.5	4.5	1.6	.4	1.4	.1	.0	.2	.2	.1	.0	.0	.0	.0	.0	377	6
TOTAL	23	94	178	178	207	132	99	35	52	11	6	5	3	2	0	0	0	0	0	1025	7
PCT	2.2	9.2	17.4	17.4	20.2	12.9	9.7	3.4	5.1	1.1	.6	.5	.3	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1935-1974

NOVEMBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.7	.7	.5	.0	23.7	.5	.7	27.9	8.4	.0	1.0	.0	.0	.5	62.2
NE	1.0	2.7	1.7	.0	12.0	.3	1.4	17.8	7.5	.0	.3	.0	1.4	.0	72.9
E	5.1	2.9	2.9	.0	8.8	2.2	.0	21.9	7.3	.0	.0	.0	.0	.0	70.8
SE	8.1	.0	4.0	.0	16.7	.5	.0	29.3	.5	.0	2.0	.0	2.0	.0	66.2
S	1.6	4.3	3.7	.0	3.2	.0	.0	12.8	10.1	.0	1.6	2.1	.0	.0	73.4
SW	2.5	1.1	2.5	.0	8.6	.0	.0	12.5	3.3	.0	.3	.0	.0	.0	83.9
W	.3	.0	.5	.0	25.8	.0	.0	26.6	7.3	.0	.9	.0	.9	.0	64.3
NW	.8	.0	.4	.0	23.6	.0	.4	24.4	6.5	.0	.5	.4	.4	.1	67.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	94.4
TOT PCT	1.6	.7	1.2	.0	19.5	.2	.3	22.9	6.6	.0	.7	.2	.5	.1	68.9
TOT OBS:	951														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	1.0	.6	1.0	.0	17.8	.3	.0	20.7	6.1	.0	1.0	.6	.6	.3	70.6
06009	2.0	.0	.8	.4	18.4	.0	.4	22.0	9.4	.0	1.2	.0	.0	.0	67.5
12015	2.3	1.5	1.5	.0	23.8	.0	.8	28.3	5.3	.0	.4	.0	1.1	.0	64.9
18021	1.0	.5	1.0	.0	15.1	.5	.0	17.1	6.8	.0	.0	.0	.0	.0	76.1
TOT PCT	1.5	.7	1.1	.1	19.0	.2	.3	22.2	6.9	.0	.7	.2	.5	.1	69.4
TOT OBS:	1034														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.3	2.1	8.4	3.6	.9	.1	15.4	18.7	15.1	.0	15.8	25.0	14.3	50.0	16.8	.0	
NE	.1	1.8	4.0	1.7	.4	.1	8.1	17.5	9.4	66.7	5.2	25.0	8.3	.0	8.5	.0	
E	.3	.8	1.6	1.0	.1	.0	3.9	16.1	4.8	.0	3.5	.0	3.7	.0	3.6	.0	
SE	.0	1.6	2.7	.6	*	.0	5.0	14.3	3.9	.0	6.9	.0	5.6	.0	3.7	.0	
S	.1	2.3	1.7	.5	.2	.0	4.8	13.1	4.5	.0	4.4	.0	4.6	.0	6.2	.0	
SW	.4	2.8	5.1	.9	.6	.0	9.8	15.6	11.0	.0	8.6	.0	10.5	.0	8.9	.0	
W	.0	2.8	8.8	7.3	2.9	.6	22.2	22.8	23.5	.0	26.3	.0	20.1	.0	18.8	37.5	
NW	.0	2.9	12.1	11.6	2.3	.4	29.4	22.3	26.7	33.3	28.3	50.0	30.8	50.0	31.8	62.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5						1.5	.0	1.1	.0	1.0	.0	2.2	.0	1.7	.0	
TOT OBS	24	153	391	241	66	10	885		263	3	210	2	229	2	174	2	
TOT PCT	2.7	17.3	44.2	27.2	7.5	1.1		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	1.3	4.8	7.4	1.6	.3		15.4	18.7	14.9	15.9	14.6	16.6		
NE	1.0	2.7	3.4	.9	.1		8.1	17.5	10.1	5.4	8.2	8.4		
E	.7	1.4	1.0	.8	.0		3.9	16.1	4.7	3.4	3.7	3.6		
SE	.9	2.4	1.5	.3	.0		5.0	14.3	3.9	6.8	5.5	3.7		
S	.8	2.9	.8	.3	.0		4.8	13.1	4.4	4.4	4.5	6.1		
SW	1.4	4.7	2.7	.8	.1		9.8	15.6	10.9	8.5	10.4	8.8		
W	.9	5.7	9.7	4.3	1.7		22.2	22.8	23.2	26.1	19.9	19.0		
NW	.7	6.9	13.3	5.1	1.3		29.4	22.3	26.8	28.5	31.0	32.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.5						1.5	.0	1.1	.9	2.2	1.7		
TOT OBS	81	280	369	124	31	885		19.4	266	212	231	176		
TOT PCT	9.2	31.6	41.7	14.0	3.5		100.0		100.0	100.0	100.0	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1935-1974

TABLE 4

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN		
00003	1.1	1.5	13.9	50.4	22.9	10.2	.0	19.8	100.0	266
06009	.9	1.4	20.3	40.1	29.7	6.1	1.4	19.2	100.0	212
12015	2.2	.9	16.0	41.6	29.9	8.2	1.3	19.8	100.0	231
18021	1.7	1.1	20.5	43.2	27.3	4.0	2.3	18.4	100.0	176
TOT	13	11	153	391	241	66	10	19.4		885
PCT	1.5	1.2	17.3	44.2	27.2	7.5	1.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.2	5.4	6.4		6.3
NE	.5	.5	1.9	4.6		6.8
E	.0	.1	1.2	2.0		7.3
SE	.1	.1	.5	4.2		7.5
S	.5	.4	1.6	2.0		6.1
SW	1.6	1.1	4.5	3.0		5.6
W	2.8	2.8	9.0	10.3		6.1
NW	3.6	3.0	12.1	10.0		5.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.4	.6	.4		4.5
TOT OBS	77	69	262	307	715	6.1
TOT PCT	10.8	9.7	36.6	42.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.1	.1	.9	4.3	4.2	.6	.1	.1	.0	3.0	
NE	.4	.0	.1	.6	2.2	2.1	.6	.0	.0	.2	1.0	
E	.0	.0	.1	.1	.7	1.6	.1	.0	.1	.1	.4	
SE	.6	.0	.3	.3	1.6	1.6	.1	.0	.0	.0	.5	
S	.2	.1	.0	.0	.8	1.6	.1	.2	.0	.0	1.4	
SW	.3	.0	.2	.1	2.8	2.9	.4	.0	.0	.0	3.5	
W	1.6	.1	.3	.3	6.6	7.3	.8	.4	.1	.1	7.0	
NW	1.9	.1	.6	1.2	6.4	8.0	1.4	.7	.3	.0	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.4	.3	.0	.0	.0	1.0	
TOT OBS	39	4	13	26	186	212	32	11	5	3	184	715
TOT PCT	5.5	.6	1.8	3.6	26.0	29.7	4.5	1.5	.7	.4	25.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.0	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.8	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>3500	4.6	6.6	7.0	7.2	7.3	7.3	7.3	7.3
>2000	17.8	29.2	34.4	35.4	36.1	36.3	36.5	36.5
>1000	28.0	46.0	54.6	57.6	59.6	60.9	61.8	61.8
>600	28.2	47.5	57.4	60.8	63.2	65.0	65.9	65.9
>300	28.7	49.0	59.1	62.6	65.1	66.9	67.8	67.8
>150	27.1	49.3	59.6	63.2	65.6	67.4	68.4	68.4
>0	27.1	49.5	60.9	65.8	69.3	72.0	73.4	74.0
TOTAL	208	380	468	505	532	553	564	568

TOTAL NUMBER OF OBS: 768

PCT FREQ NH <5/8: 26.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.2	2.5	3.3	4.4	4.7	6.6	12.1	15.9	36.3	5.0	879

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1939-1974

NOVEMBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.2	.1	.2	.1	.2	1.3	2.2	.0	.0	4.8	
	NO PCP	.3	.1	.0	.1	.1	*	.4	.5	.0	.0	1.5	
	TOT %	.9	.3	.1	.3	.2	.2	1.7	2.6	.0	.0	6.3	
1/2<1	PCP	.5	.1	.1	.4	.1	.4	1.1	.9	.0	.0	3.7	
	NO PCP	.0	.1	.0	.0	.0	.1	.2	.1	.0	.0	.5	
	TOT %	.5	.2	.1	.4	.1	.5	1.3	1.0	.0	.0	4.2	
1<2	PCP	.5	.3	.1	.4	.0	*	.8	1.5	.0	.0	3.7	
	NO PCP	.2	*	.1	.1	.2	.0	.3	.4	.0	.0	1.3	
	TOT %	.7	.3	.2	.5	.2	*	1.1	1.9	.0	.0	4.9	
2<5	PCP	1.7	.5	.2	.2	.3	.4	1.9	1.6	.0	.0	6.9	
	NO PCP	1.4	.7	.2	.3	.6	.6	1.0	2.2	.0	.0	6.9	
	TOT %	3.1	1.2	.3	.5	.9	1.1	2.9	3.8	.0	.0	13.8	
5<10	PCP	.7	.3	.3	.2	.2	.3	.9	1.2	.0	.0	4.1	
	NO PCP	3.4	2.2	1.0	1.8	.9	1.8	5.2	7.0	.0	.3	23.6	
	TOT %	4.1	2.6	1.3	2.0	1.0	2.1	6.0	8.2	.0	.3	27.6	
10+	PCP	.2	.0	.0	.0	.0	.1	.2	.1	.0	.0	.6	
	NO PCP	5.3	3.2	1.6	1.4	2.5	5.7	9.8	11.5	.0	1.6	42.5	
	TOT %	5.5	3.2	1.6	1.4	2.5	5.8	10.0	11.6	.0	1.6	43.1	
TOT OBS													
TOT PCT													
		14.7	7.7	3.6	5.2	4.9	9.7	23.0	29.2	.0	1.9	100.0	955

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.1	*	.0	.2	.0		.5	
	11-21	.2	.1	.1	.2	.1	.1	.4	.5	.0		1.9	
	22+	.7	.1	.0	.0	.0	.0	.9	1.5	.0		3.1	
	TOT %	.8	.3	.1	.2	.2	.2	1.3	2.3	.0	.0	5.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.0	.2	.1	*	.0		.6	
	11-21	.2	.1	.0	.3	.1	.1	.3	*	.0		1.2	
	22+	.2	.1	.1	.1	.0	.3	.8	1.1	.0		2.7	
	TOT %	.5	.2	.1	.5	.1	.6	1.2	1.1	.0	.0	4.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.0	.1	.2	.0	.0	.1	.0		.8	
	11-21	.2	.1	.1	.3	.0	.0	.2	.6	.0		1.5	
	22+	.2	.1	.1	.1	.0	*	.9	1.2	.0		2.7	
	TOT %	.6	.4	.2	.5	.2	*	1.1	2.0	.0	.0	5.0	
2<5	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.4	.3	.0	.1	.0	.1	.2	.1	.0		1.3	
	11-21	1.5	.4	.0	.2	.6	.9	.9	1.7	.0		6.3	
	22+	1.4	.6	.3	.1	.2	.1	1.8	1.9	.0		6.4	
	TOT %	3.3	1.3	.4	.5	.8	1.2	2.9	3.7	.0	.0	14.0	
5<10	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.5	
	4-10	.5	.5	.3	.8	.5	.8	.6	1.2	.0		5.2	
	11-21	2.7	1.4	.5	1.0	.3	1.0	2.2	2.6	.0		11.8	
	22+	1.1	.8	.4	.2	.3	.3	3.1	4.3	.0		10.4	
	TOT %	4.3	2.7	1.4	2.0	1.2	2.1	5.8	8.2	.0	.3	28.0	
10+	0-3	.2	.1	.1	.0	.1	.4	.0	.0	.0	1.2	2.1	
	4-10	.9	.9	.4	.5	1.5	1.7	2.0	1.2	.0		9.1	
	11-21	3.6	1.8	.8	.7	.7	3.0	4.6	6.0	.0		21.1	
	22+	.9	.5	.2	.1	.2	.8	3.5	4.6	.0		10.9	
	TOT %	5.6	3.3	1.6	1.4	2.5	5.9	10.1	11.8	.0	1.2	43.2	
TOT OBS													
TOT PCT													
		15.0	8.2	3.8	5.1	4.9	10.0	22.5	29.1	.0	1.3	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1935-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.0	.8	2.3	5.6	28.2	31.2	3.8	1.5	.0	.4	76.7	23.3	266
06009	3.3	.5	1.9	3.7	27.0	34.4	4.7	2.3	1.4	.0	79.1	20.9	215
12015	13.6	.0	1.2	1.8	23.7	20.1	4.1	.6	1.2	.6	66.9	33.1	169
18021	4.4	.7	2.2	3.7	16.3	27.4	5.9	1.5	.7	.7	63.7	36.3	135
TOT	44	4	15	31	195	228	35	12	6	3	573	212	785
PCT	5.6	.5	1.9	3.9	24.8	29.0	4.5	1.5	.8	.4	73.0	27.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.1	3.5	4.2	11.2	24.9	50.2	313
06009	5.9	5.1	4.9	10.7	30.4	43.5	253
12015	8.2	5.2	7.5	18.7	26.6	33.7	267
18021	3.9	3.4	3.9	13.6	30.1	45.1	206
TOT	64	45	52	140	288	450	1039
PCT	6.2	4.3	5.0	13.5	27.7	43.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.0	11.0	27.3	51.1	21.6	264
06009	3.3	13.2	28.3	50.9	20.8	212
12015	14.2	21.0	38.9	33.3	27.8	162
18021	3.8	10.8	23.8	43.1	33.1	130
TOT	43	105	226	353	189	768
PCT	5.6	13.7	29.4	46.0	24.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	3.1	.0	.0	.0	.0	1	3.1
50/54	.0	.0	.0	.0	.0	.0	.0	3.1	1	3.1
45/49	.0	.0	.0	.0	.0	6.3	3.1	.0	3	9.4
40/44	.0	.0	.0	.0	.0	21.9	6.3	15.6	14	43.8
35/39	.0	.0	.0	.0	6.3	.0	6.3	6.3	6	18.8
30/34	.0	.0	.0	.0	.0	.0	3.1	3.1	2	6.3
25/29	.0	.0	.0	3.1	.0	.0	.0	3.1	2	6.3
15/19	.0	.0	.0	.0	.0	3.1	.0	6.3	3	9.4
TOTAL	0	0	0	2	2	10	6	12	52	100.0
PCT	.0	.0	.0	6.3	6.3	31.3	18.8	37.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0
3.1	.0	.0	.0	.0	.8	5.5	.0	.0	.0
.0	12.5	3.1	3.9	7.8	10.2	3.1	3.1	.0	.0
.0	6.3	.0	.0	.0	6.3	6.3	.0	.0	.0
3.1	.0	.0	.0	.0	.0	.0	3.1	.0	.0
2.3	.0	.0	.0	3.1	.0	.0	.8	.0	.0
.0	.0	.0	.0	.0	.0	7.0	2.3	.0	.0
8.6	18.8	3.1	7.0	10.9	20.3	21.9	9.4	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	46	41	29	16	10	9	29.6	288
06009	58	52	43	30	17	10	7	30.4	247
12015	54	45	42	28	17	9	-2	28.9	258
18021	54	46	42	28	14	8	7	28.9	201
TOT	59	48	42	29	16	10	-2	29.5	994

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.7	6.7	33.3	20.0	33.3	82	15
06009	.0	20.0	.0	40.0	.0	40.0	81	5
12015	.0	.0	.0	20.0	40.0	40.0	87	5
18021	.0	.0	14.3	28.6	14.3	42.7	84	7
TOT	C	2	2	10	6	12	83	32

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PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1935-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.1	.0	.0	6	.0	.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	2	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.4	.0	.4	.1	11	.0	1.4
4	.0	.0	.0	.0	.0	.0	.0	.1	.4	.6	.0	.0	.0	.0	9	.0	1.1
3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.5	.0	.0	.0	.0	5	.0	.6
2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.6	.0	.0	.0	.0	13	.0	1.7
1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.1	.1	.0	.0	5	.0	.6
0	.0	.0	.0	.0	.0	.1	.4	.4	1.5	1.5	.3	.0	.0	.0	33	.0	4.2
-1	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	.4	.0	.0	.0	16	.0	2.0
-2	.0	.0	.0	.0	.0	.3	1.1	1.7	.9	.0	.0	.0	.0	.0	33	.1	4.1
-3	.0	.0	.0	.0	.0	.1	1.1	1.0	1.4	.3	.0	.0	.0	.0	23	.0	2.9
-4	.0	.0	.0	.0	.0	.5	.9	1.5	.8	.5	.1	.0	.0	.0	34	.0	4.3
-5	.0	.0	.0	.0	.0	.5	1.3	3.1	.6	.1	.0	.0	.0	.0	44	.1	5.5
-6	.0	.0	.0	.0	.0	.6	.8	1.4	.0	.0	.0	.0	.0	.0	22	.0	2.8
-7/-8	.0	.0	.0	.0	.1	3.1	6.0	3.1	.6	.0	.0	.0	.0	.0	101	.1	12.8
-9/-10	.0	.0	.0	.1	1.5	5.0	4.0	1.8	.5	.1	.0	.0	.0	.0	102	.1	12.9
-11/-13	.0	.0	.0	.3	4.2	6.8	2.7	.6	.0	.0	.0	.0	.0	.0	114	.0	14.5
-14/-16	.0	.0	.0	4.1	3.3	4.7	.5	.0	.0	.0	.0	.0	.0	.0	99	.1	12.5
-17/-19	.0	.0	.9	1.4	2.0	.9	.5	.0	.0	.0	.0	.0	.0	.0	45	.0	5.7
-20/-22	.0	.3	1.0	1.0	.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	29	.0	3.7
-23/-25	.1	.5	.6	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	2.6
-26/-30	.4	.8	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	1.5
<-30	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	4	12	23	60	93	137	117	77	12	54	4	4	3	1	784	.8	778
PCT	.5	1.5	2.9	7.7	11.9	23.9	17.5	14.9	9.8	6.9	1.5	.5	.4	.1	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	1.3	.0	.0	.0	1.7	.0	.4	.4	.0	.0	.0	.8
3-4	.0	.7	1.9	.3	.0	.0	2.9	.0	.5	1.3	.2	.0	.0	2.0
5-6	.0	.3	1.9	.7	.0	.0	2.9	.0	.0	1.5	.5	.0	.0	2.0
7	.0	.3	1.7	.8	.0	.0	2.9	.0	.2	.4	.2	.0	.0	.8
8-9	.0	.0	.9	.3	.3	.0	1.5	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.7	.4	.4	.0	1.5	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.1	.6	.2	.0	.9	.0	.0	.4	.5	.0	.0	.9
13-16	.0	.0	.3	.4	.1	.1	1.0	.0	.0	.0	.2	.2	.2	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.9	8.9	3.8	1.3	.1	16.2	.0	1.1	4.2	2.1	.4	.2	7.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.4	.0	.8	.3	.0	.0	.0	1.1
1-2	.0	.0	.2	.0	.0	.0	.2	.0	.5	.5	.0	.0	.0	1.0
3-4	.0	.2	.7	.3	.0	.0	1.2	.0	.5	1.3	.0	.0	.0	1.9
5-6	.0	.2	.4	.0	.0	.0	.6	.0	.2	.5	.2	.0	.0	.8
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.1	.4	.1	.0	.6	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	1.6	1.3	.1	.0	3.8	.0	2.0	2.6	.7	.0	.0	5.3

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

TABLE 18 (CONT)

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.6	.0	.0	.0	.0		.6	.2	.6	.0	.0	.0	.0		.7
1-2	.0	1.0	.4	.0	.0	.0		1.4	.2	1.2	.5	.0	.0	.0		1.9
3-4	.0	.3	.3	.3	.0	.0		.9	.2	.7	.6	.0	.0	.0		1.5
5-6	.0	.0	.1	.0	.0	.0		.1	.0	.2	.9	.2	.0	.0		1.2
7	.0	.0	.2	.0	.0	.0		.2	.0	.0	.5	.3	.0	.0		.8
8-9	.0	.0	.1	.0	.0	.0		.1	.0	.0	.6	.0	.0	.0		.6
10-11	.0	.0	.0	.0	.2	.0		.2	.0	.2	.2	*	.2	.0		.6
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.2	.0		.3
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.2	.2	.2	.0	.0		.5
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.9	1.2	.3	.2	.0		3.5	.5	2.9	3.7	.7	.7	.0		8.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.4	.2	.0	.0	.0		.6	.0	.7	.0	.0	.0	.0		.7	
1-2	.0	1.6	1.0	.0	.0	.0		2.6	.0	.4	1.4	.0	.0	.0		1.8	
3-4	.0	.7	3.3	.5	.0	.0		4.5	.0	.6	2.7	1.5	.0	.0		4.8	
5-6	.0	.2	2.1	1.5	.2	.0		4.1	.0	.2	3.0	1.1	.2	.0		4.6	
7	.0	.0	.6	2.7	.2	.0		3.6	.0	*	2.3	3.6	.4	.0		6.3	
8-9	.0	.0	.7	2.2	.3	.2		3.4	.0	.2	1.5	1.8	.2	.0		3.7	
10-11	.0	.0	.8	.7	.5	.2		2.1	.0	.0	.5	1.9	.8	.3		3.6	
12	.0	.0	.1	.6	.0	.0		.7	.0	.0	*	.7	.0	.0		.7	
13-16	.0	.0	.0	.3	1.1	.2		1.5	.0	.0	.0	.5	.6	*		1.2	
17-19	.0	.0	.1	.0	.6	.2		.8	.0	.0	*	.5	.2	.0		.7	
20-22	.0	.0	.0	.0	.2	.2		.3	.0	.0	.0	.2	.5	.0		.7	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	*	.0		*	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	2.9	9.0	8.5	3.1	.8		24.2	.0	2.1	11.6	11.8	3.0	.4		28.8	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	3.6	.5	.0	.0	.0	6.5	
1-2	.2	5.5	5.7	.0	.0	.0	11.3	
3-4	.2	4.2	12.3	3.1	.0	.0	19.7	
5-6	.0	1.1	10.5	4.2	.5	.0	16.3	
7	.0	.5	5.7	8.1	.6	.0	14.9	
8-9	.0	.2	4.2	5.2	1.0	.2	10.7	
10-11	.0	.2	2.3	3.6	2.1	.5	8.6	
12	.0	.0	1.0	2.6	.3	.0	3.9	
13-16	.0	.2	.5	1.6	1.9	.5	4.7	
17-19	.0	.0	.2	.5	1.0	.2	1.8	
20-22	.0	.0	.0	.3	.8	.2	1.3	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.2	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	15.3	42.6	29.1	8.7	1.5	100.0	619

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	2.8	7.3	7.0	5.0	2.1	1.6	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	238	5
6-7	.0	.1	1.2	2.1	6.4	2.6	2.6	.6	1.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	162	8
8-9	.0	.1	1.0	1.3	.8	1.9	2.6	1.2	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	102	9
10-11	.0	.2	.1	.2	.2	.6	.2	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	9
12-13	.0	.0	.8	.3	.1	.3	.5	.2	.4	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	37	11
>13	.0	.0	.0	.4	.2	.2	.2	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	15	10
INDET	1.2	1.5	4.8	9.2	8.5	5.3	3.0	1.1	1.3	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	341	6
TOTAL	15	44	143	194	200	124	102	40	46	21	10	4	0	1	0	0	0	0	0	944	7
PCT	1.6	4.7	15.1	20.6	21.2	13.1	10.8	4.2	4.9	2.2	1.1	.4	.0	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

DECEMBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.8	.0	.0	.0	42.3	.0	.0	43.0	5.8	.0	2.5	.0	.0	.0	48.4
NE	.0	.0	.0	.0	28.3	1.6	.0	29.9	3.1	.0	3.3	.0	.0	.0	63.4
E	1.9	.0	.0	.0	34.2	.0	.0	36.1	5.7	.0	5.1	.0	.0	.0	53.2
SE	3.5	.0	2.8	.0	24.6	.0	.0	28.4	10.6	.0	.0	.0	.0	.0	61.0
S	.0	.0	6.8	.0	12.8	.0	.0	19.7	.0	.0	2.6	.0	.0	2.6	75.2
SW	.0	.0	.0	.0	25.3	.0	.0	25.3	6.0	.0	5.1	1.8	.0	.5	61.3
W	.0	.0	.0	.0	31.2	.0	.0	31.2	3.2	.0	1.9	.0	.0	.0	63.7
NW	.2	.0	.0	.0	40.0	.0	.0	40.2	7.3	.0	2.6	.0	.0	.6	49.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	9.1	.0	.0	9.1	9.1	.0	9.1	.0	.0	.0	72.7
TOT PCT	.5	.0	.5	.0	33.0	.2	.0	34.0	5.4	.0	2.9	.2	.0	.3	57.3
TOT OBS:	627														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	1.1	.0	.5	.0	36.0	.0	.0	35.6	6.4	.0	5.9	.5	.0	.5	51.1
06009	.0	.0	.6	.0	29.8	.0	.0	30.4	4.8	.0	2.4	.0	.0	.0	62.5
12015	1.1	.5	.0	.0	38.6	.5	.0	40.2	7.1	.0	1.6	.0	.0	.0	51.1
18021	.0	.0	.7	.0	29.9	.0	.0	30.6	5.4	.0	.7	.0	.7	1.4	61.2
TOT PCT	.6	.1	.4	.0	33.3	.1	.0	34.5	6.0	.0	2.8	.1	.1	.4	56.0
TOT OBS:	687														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.6	2.0	6.7	6.1	.9	.0		16.3	20.0	14.8	.0	21.6	.0	14.9	.0	14.6	25.0
NE	.3	1.3	5.0	2.1	.4	.0		8.9	17.1	7.0	.0	10.3	.0	9.5	.0	10.0	.0
E	.0	1.8	1.6	1.8	1.2	.0		6.4	20.5	10.3	37.5	7.4	.0	4.6	.0	2.6	.0
SE	.0	.6	1.5	2.2	.4	.0		4.7	22.1	3.4	12.5	3.2	20.0	5.3	.0	5.9	25.0
S	.0	1.3	2.2	.8	.2	.0		4.5	16.8	4.8	.0	3.9	.0	4.6	.0	4.7	.0
SW	.3	1.8	3.9	3.1	.2	.0		8.9	18.4	8.9	12.5	12.8	.0	8.3	.0	5.7	6.3
W	.0	3.0	11.2	6.6	1.3	.0		22.1	20.2	22.0	37.5	19.0	35.0	23.7	.0	22.8	18.8
NW	.0	1.7	13.1	9.6	2.1	.3		26.8	22.4	26.7	.0	20.4	45.0	28.4	.0	32.1	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.9	.0	1.4	.0	.6	.0	1.6	.0
TOT OBS	15	80	266	192	40	2	595		20.0	160	2	141	5	156	0	127	4
TOT PCT	2.5	13.4	44.7	32.3	6.7	.3		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
									03	09	15	21
N	1.0	4.5	8.0	2.6	.2		16.3	20.0	14.7	20.9	14.9	14.9
NE	.7	3.6	3.9	.8	.0		8.9	17.1	6.9	9.9	9.5	9.7
E	.9	2.0	1.5	2.0	.0		6.4	20.5	10.6	7.2	4.6	2.5
SE	.2	1.1	2.3	1.1	.0		4.7	22.1	3.5	3.8	5.3	6.5
S	.5	1.9	1.4	.6	.0		4.5	16.8	4.8	3.8	4.6	4.6
SW	.6	3.4	3.5	1.4	.8		8.9	18.4	9.0	12.3	8.3	5.7
W	1.1	7.5	8.7	4.5	.3		22.1	20.2	22.2	19.5	23.7	22.7
NW	.7	5.5	14.3	5.3	1.0		26.8	22.4	26.4	21.2	28.4	31.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.9	1.4	.6	1.5
TOT OBS	42	175	260	109	9	595		20.0	162	146	156	131
TOT PCT	7.1	29.4	43.7	18.3	1.5		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.9	.6	9.9	46.9	34.0	5.6	1.2	20.5	100.0	162
06009	1.4	2.7	15.8	41.1	33.6	5.5	.0	19.4	100.0	140
12015	.6	1.3	12.8	42.3	34.6	8.3	.0	20.7	100.0	156
18021	1.5	.0	16.0	48.9	26.0	7.6	.0	19.1	100.0	131
TOT	8	7	80	266	192	40	2	20.0		595
PCT	1.3	1.2	13.4	44.7	32.3	6.7	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.0	.7	3.6	11.4		7.4
NE	.4	.1	4.0	5.7		7.0
E	.7	.0	.4	6.3		7.2
SE	.2	.4	.4	4.3		7.1
S	.8	.5	.8	2.2		5.7
SW	.9	.9	5.1	2.9		6.0
W	2.9	3.0	7.1	7.5		5.6
NW	1.2	2.3	10.0	11.7		6.6
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	.7		3.4
TOT OBS	34	36	145	238	453	6.5
TOT PCT	7.5	7.9	32.0	52.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	2.4	.0	.7	1.6	3.3	4.6	1.0	.7	.2	.2	1.0	
NE	.6	.7	.1	1.2	3.3	3.1	1.1	.0	.0	.0	.6	
E	2.2	.0	.0	.4	.9	1.7	1.0	.2	.0	.0	1.1	
SE	.3	.0	.0	.0	1.7	1.1	1.7	.1	.0	.0	.7	
S	.6	.0	.0	.3	1.1	.6	.0	.0	.0	.0	1.7	
SW	.6	.0	.1	.6	1.8	3.0	.8	.0	.0	.4	2.4	
W	.9	.0	1.0	.8	4.4	5.8	1.1	.0	.0	.0	6.4	
NW	2.6	.0	.3	1.5	6.3	7.9	1.9	.4	.1	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.4	.4	.0	.0	.0	.0	.4	
TOT OBS	47	1	10	29	105	128	39	6	1	3	84	453
TOT PCT	10.4	.2	2.2	6.4	23.2	28.3	8.6	1.3	.2	.7	18.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.2	.8	.8	.8	.8	.8	.8	.8
>5000	.6	1.5	1.9	1.9	2.1	2.1	2.1	2.1
>3500	4.4	7.6	9.2	9.5	10.1	10.1	10.1	10.1
>2000	13.0	27.1	33.8	35.9	36.8	38.0	38.0	38.0
>1000	15.8	35.7	50.8	55.9	57.6	59.9	60.7	60.7
>600	17.0	38.7	55.0	60.7	62.8	65.5	66.8	66.8
>300	17.2	39.1	55.7	61.8	64.5	67.4	69.1	69.1
>150	17.4	39.3	55.9	62.0	64.7	67.6	69.3	69.3
>0	17.4	40.3	60.1	67.0	71.4	77.1	80.7	80.9
TOTAL	83	192	286	319	340	367	384	385

TOTAL NUMBER OF OBS: 476

PCT FREQ NH <5/8: 19.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.4	1.2	2.8	4.0	3.9	5.9	10.7	11.6	46.4	9.2	597

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	2.3	.5	.9	*	.3	.7	1.4	2.0	.0	.0	8.1	
	NO PCP	.3	*	.3	.0	.0	.2	.2	.2	.0	.0	1.3	
	TOT %	2.5	.6	1.2	*	.3	.9	1.7	2.1	.0	.0	9.4	
1/2<1	PCP	1.2	.2	.1	.2	.0	.3	1.0	2.6	.0	.0	5.6	
	NO PCP	.3	.2	.0	.0	.0	.0	.0	.3	.0	.0	.8	
	TOT %	1.5	.4	.1	.2	.0	.3	1.0	2.9	.0	.0	6.4	
1<2	PCP	1.1	.8	.3	.8	.0	*	1.9	1.5	.0	.2	6.5	
	NO PCP	.0	.0	.0	*	.1	.2	.3	.6	.0	.0	1.3	
	TOT %	1.1	.8	.3	.8	.1	.2	2.2	2.1	.0	.2	7.8	
2<5	PCP	.9	1.5	1.0	.4	.5	.8	2.0	3.7	.0	.0	10.8	
	NO PCP	2.3	1.3	.1	.2	.4	1.0	1.6	2.0	.0	.5	9.4	
	TOT %	3.2	2.8	1.1	.6	.9	1.9	3.7	5.7	.0	.5	20.2	
5<10	PCP	1.1	*	.3	.2	.0	.3	.6	.8	.0	.0	3.3	
	NO PCP	3.5	2.9	1.8	1.7	1.5	1.6	5.7	6.9	.0	.3	26.0	
	TOT %	4.7	2.9	2.1	1.9	1.5	2.0	6.3	7.7	.0	.3	29.3	
10+	PCP	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.5	
	NO PCP	2.7	2.6	1.6	2.0	1.7	3.2	6.8	3.1	.0	.8	26.4	
	TOT %	2.7	2.6	1.6	2.0	1.9	3.2	7.1	3.1	.0	.8	26.9	
TOT OBS													
TOT PCT													
		15.6	10.0	6.4	5.5	4.7	8.5	21.9	25.7	.0	1.8	100.0	628

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.5	*	.0	.2	.2	.2	.0		1.1	
	11-21	1.1	.3	.2	.0	.3	.1	.3	*	.0		2.3	
	22+	1.8	.3	.7	.0	.0	.6	1.4	2.0	.0		6.7	
	TOT %	2.9	.6	1.4	*	.3	1.0	1.8	2.2	.0	.0	10.2	
1/2<1	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.0	.0	.0	.0	.2	.2	.0	.0		.5	
	11-21	.2	.0	.0	.0	.0	.2	.5	.7	.0		1.6	
	22+	.8	.4	.1	.2	.0	.0	.4	2.2	.0		4.0	
	TOT %	1.3	.4	.1	.2	.0	.4	1.1	2.9	.0	.0	6.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.4	.1	.2	.0	.0	.7	.6	.0		2.3	
	22+	1.1	.3	.2	.4	.0	.2	1.6	1.9	.0		5.6	
	TOT %	1.4	.7	.3	.5	.0	.2	2.2	2.5	.0	.2	8.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.3	.4	.1	.2	.0	.3	.8	.5	.0		2.6	
	11-21	1.8	1.2	.4	.1	.3	1.1	1.8	3.2	.0		10.0	
	22+	1.4	.9	.4	.2	.5	.5	1.4	2.3	.0		7.6	
	TOT %	3.5	2.5	1.0	.5	.8	1.9	4.0	5.9	.0	.2	20.4	
5<10	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.5	.3	.4	.2	.5	.3	.7	.2	.0		3.2	
	11-21	2.4	1.8	.5	.4	.9	.7	4.2	5.4	.0		16.3	
	22+	1.5	.5	1.1	1.1	.0	1.1	1.4	2.2	.0		8.8	
	TOT %	4.5	2.6	2.0	1.7	1.4	2.1	6.3	7.9	.0	.2	28.6	
10+	0-3	.3	.2	.0	.0	.0	.2	.0	.0	.0	.9	1.6	
	4-10	.9	.6	.8	.2	.7	.8	1.2	.9	.0		6.2	
	11-21	1.1	1.3	.5	.7	.6	1.5	4.0	3.1	.0		12.8	
	22+	.3	.2	.3	.7	.4	.7	1.8	1.4	.0		5.8	
	TOT %	2.7	2.3	1.6	1.6	1.7	3.2	7.0	5.4	.0	.9	26.4	
TOT OBS													
TOT PCT													
		16.2	9.1	6.4	4.6	4.2	8.7	22.5	26.8	.0	1.4	100.0	569

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	9.2	.0	3.3	7.2	23.7	32.9	9.9	2.0	.0	.7	88.8	11.2	192
06009	7.8	.8	2.3	8.6	26.6	22.7	10.9	.0	.0	.0	79.7	20.3	128
12015	14.9	.0	2.5	4.1	20.7	25.6	5.0	1.7	1.7	.0	76.0	24.0	121
18021	13.7	.0	.0	5.3	18.9	27.4	5.3	1.1	.0	2.1	73.7	26.3	95
TOT	55	1	11	32	113	136	40	6	2	3	399	97	496
PCT	11.1	.2	2.2	6.5	22.8	27.4	8.1	1.2	.4	.6	80.4	19.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	8.9	4.7	12.6	19.5	25.8	28.4	190
06009	8.8	7.0	7.0	19.3	21.6	36.3	171
12015	13.2	8.2	6.6	17.0	31.3	23.6	182
18021	8.1	4.7	5.4	26.2	38.3	17.4	149
TOT	68	43	36	140	200	185	692
PCT	9.8	6.2	8.1	20.2	28.9	26.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	9.6	19.9	47.9	41.1	11.0	146
06009	8.1	14.6	43.9	38.2	17.9	123
12015	13.7	26.1	44.3	32.2	23.5	115
18021	14.1	21.7	47.8	28.3	23.9	92
TOT	55	97	219	170	87	476
PCT	11.6	20.4	46.0	35.7	18.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
43/49	.0	.0	3.4	.0	.0	3.8	.0	3.8	3	11.5
40/44	.0	.0	.0	.0	.0	3.8	.0	7.7	3	11.5
30/34	.0	.0	.0	.0	7.7	.0	7.7	15.4	8	30.8
25/29	.0	.0	.0	3.8	3.8	3.8	.0	.0	3	11.5
20/24	.0	.0	.0	.0	23.1	3.8	.0	.0	7	26.9
15/19	.0	.0	.0	.0	3.8	3.8	.0	.0	2	7.7
TOTAL	0	0	1	1	10	5	2	7	26	100.0
PCT	.0	.0	3.6	3.4	38.5	19.2	7.7	26.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
43/49	.0	.0	.0	.0	3.8	1.0	6.7	.0	.0	.0
40/44	.0	.0	2.9	1.9	2.9	1.0	2.9	.0	.0	.0
30/34	.0	.0	2.9	24.0	.0	3.8	.0	.0	.0	.0
25/29	.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0
20/24	.0	.0	.0	.0	.0	7.7	19.2	.0	.0	.0
15/19	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0
TOTAL	.0	.0	5.8	37.5	6.7	13.5	36.5	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	49	45	36	23	10	1	1	22.8	179
06009	44	43	33	23	9	4	-6	22.0	159
12015	45	43	32	21	10	7	6	21.1	182
18021	45	44	34	21	9	3	1	21.5	140
TOT	49	44	34	21	10	3	-6	21.8	660

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.5	50.0	.0	12.5	25.0	72	8
06009	.0	14.3	42.9	28.6	.0	14.3	72	7
12015	.0	.0	20.0	40.0	.0	40.0	81	5
18021	.0	.0	33.3	16.7	16.7	33.3	79	6
TOT	0	2	10	5	2	7	76	26

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

DECEMBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.2	.2	4	.0	.8
1	.0	.0	.0	.0	.0	.0	.0	.8	.8	.2	.0	.2	10	.0	2.1
0	.0	.0	.0	.0	.0	.4	.8	.8	.2	.2	.0	.0	12	.0	2.5
-1	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	6	.0	1.3
-2	.0	.0	.0	.0	.0	.0	1.9	.6	.4	.0	.2	.0	15	.4	2.7
-3	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	.0	.0	6	.0	1.3
-4	.0	.0	.0	.0	.0	.0	2.7	2.7	.0	.0	.2	.0	27	.4	5.3
-5	.0	.0	.0	.0	.0	.0	3.6	2.1	.2	.0	.2	.0	29	.2	5.9
-6	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	8	.0	1.7
-7/-8	.0	.0	.0	.0	.0	2.7	4.4	1.7	.0	.0	.0	.0	42	.0	8.9
-9/-10	.0	.0	.0	.0	.4	4.4	4.2	.8	.0	.0	.0	.0	47	.2	9.7
-11/-13	.0	.0	.0	.0	5.3	9.5	2.1	.0	.2	.0	.0	.0	81	.0	17.1
-14/-16	.0	.0	.0	1.3	7.8	3.0	.6	.4	.0	.0	.0	.0	62	.2	12.9
-17/-19	.0	.0	1.1	4.6	3.0	1.3	.2	.2	.0	.0	.0	.0	49	.2	10.1
-20/-22	.0	.2	1.5	2.7	2.1	.6	.2	.0	.0	.0	.0	.0	35	.0	7.4
-23/-25	.0	.6	3.2	1.7	.2	.0	.2	.0	.0	.0	.0	.0	28	.0	5.9
-26/-30	.4	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	4	.2	.6
<-30	.8	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	5	.4	.6
TOTAL	6	5	27	50	89	103	64	13	13	5	5	5	474	11	463
PCT	1.3	1.1	5.7	10.5	18.8	21.7	21.3	13.5	2.7	1.3	1.1	1.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.8	.0	.0	.0	.0	2.0	.3	.3	.0	.0	.0	.0	.6
1-2	.3	.2	.4	.0	.0	.0	.9	.0	.1	.9	.0	.0	.0	1.0
3-4	.0	.0	2.3	.3	.0	.0	2.6	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	.3	1.0	1.6	.5	.0	3.4	.0	.0	.4	.3	.0	.0	.7
7	.0	.0	.0	.4	.0	.0	1.3	.0	.0	.3	.5	.3	.0	1.1
8-9	.3	.0	.8	1.0	.3	.0	2.3	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.6	2.0	.0	.0	2.6	.0	.0	.3	.7	.0	.0	1.0
12	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.3	1.0	.5	.0	1.8	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.3	6.3	7.0	1.4	.0	17.7	.3	.3	4.1	2.5	.3	.0	7.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.1
1-2	.0	.3	.5	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.3	.4	.0	.0	.0	.7	.0	.3	1.2	.0	.0	.0	1.5
5-6	.0	.0	.5	.3	.0	.0	.8	.0	.0	.3	.3	.0	.0	.5
7	.0	.0	.0	.7	.5	.0	1.2	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	.2	.3	.0	.5	.0	.0	.3	.9	.0	.0	1.2
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.3	.3	.0	.0	.5
12	.0	.0	.0	.3	.4	.0	.7	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	1.4	2.2	1.8	.0	6.7	.0	.3	2.1	2.4	.1	.0	4.9

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.5	.0	.0	.0	.0	.5	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	1.0	.3	.0	.0	.0	1.2	.3	.1	.5	.0	.0	.0	1.0	
3-4	.0	.3	1.2	.0	.0	.0	1.4	.0	.4	.8	.3	.0	.0	1.5	
5-6	.0	.0	.6	.2	.0	.0	.8	.0	.3	1.1	.8	.0	.0	2.1	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.7	.3	.0	1.3	
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.1	.6	.0	.0	.7	
10-11	.0	.0	.3	.3	.0	.0	.5	.0	.0	.3	.6	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.3	.2	.0	.0	.5	.0	.3	.3	.3	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.8	2.9	1.1	.0	.0	5.8	.3	2.0	3.4	3.6	.3	.0	9.6	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.6	.0	.0	.0	.0	.6	.0	1.1	.0	.0	.0	.0	1.1		
1-2	.0	.7	.5	.0	.0	.0	1.2	.0	.1	1.6	.0	.0	.0	1.6		
3-4	.0	1.4	3.5	1.3	.0	.0	6.2	.0	.3	2.5	.6	.0	.0	3.5		
5-6	.0	.3	2.3	1.7	.5	.0	4.8	.0	.0	3.2	1.2	.1	.0	4.5		
7	.0	.5	2.3	1.6	.0	.0	4.5	.0	.1	2.5	2.0	.0	.0	4.5		
8-9	.0	.0	.8	.2	.0	.0	1.0	.0	.0	.3	1.7	.0	.0	2.1		
10-11	.0	.0	.8	1.3	.9	.0	3.0	.0	.0	.5	2.1	.5	.0	3.0		
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.3	.3	.0	.0	.6		
13-16	.0	.0	.2	.5	.0	.0	.8	.0	.0	.1	.9	.1	.5	1.6		
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	3.5	10.3	6.7	2.1	.0	22.7	.0	1.6	10.9	8.2	1.2	.5	23.1	98.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	6.0	.0	.0	.0	.0	8.5	
1-2	.5	2.5	4.7	.0	.0	.0	7.7	
3-4	.0	3.0	14.2	2.5	.0	.0	19.7	
5-6	.0	.8	9.3	6.3	1.1	.0	17.5	
7	.0	.5	6.3	6.8	1.1	.0	14.8	
8-9	.3	.0	2.5	4.9	.5	.0	8.2	
10-11	.0	.0	3.0	7.7	1.4	.0	12.1	
12	.0	.0	.3	1.6	1.1	.0	3.0	
13-16	.0	.3	1.1	4.1	.5	.5	6.6	
17-19	.0	.0	.0	.0	.5	.0	.5	
20-22	.0	.0	.0	.3	.5	.0	.8	
23-25	.0	.0	.0	.0	.5	.0	.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	13.2	41.4	34.2	7.4	.5	100.0	365

PERIOD: (OVER-ALL) 1966-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.0	5.4	5.6	3.8	2.5	.5	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	5
6-7	.0	.0	1.5	2.0	3.9	2.8	3.6	1.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	8
8-9	.0	.3	.2	1.1	1.3	1.6	3.9	.7	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	64	9
10-11	.0	1.0	.0	.5	.5	1.3	.8	.3	.5	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	35	9
12-13	.0	.0	.5	.0	.3	.5	.5	.3	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	17	10
>13	.0	.0	.0	.3	.3	.0	.2	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	11	
INDET	1.5	3.3	5.3	9.4	9.4	5.1	3.8	1.1	3.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	258	7
TOTAL	9	40	78	115	119	84	91	27	40	5	9	2	0	0	0	0	0	0	0	609	7
PCT	1.5	6.6	12.8	18.9	19.5	13.8	13.3	4.4	6.6	.8	1.5	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

JANUARY, MAY - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974AREA 0019 OKHOTSK SEA SW
51.8N 146.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.7	.3	4.9	.1	13.0	.5	.1	22.1	3.3	.0	13.2	.5	.2	.5	60.3
NE	6.7	.9	4.7	.0	8.6	.3	.2	20.4	2.3	.5	16.1	.2	.5	.1	59.8
E	6.0	.3	3.9	.0	7.3	.2	.0	17.8	3.7	.0	17.9	.2	.3	.1	59.9
SE	5.7	.7	5.7	.0	5.2	.1	.0	16.8	2.7	.2	21.6	.6	.8	.2	57.2
S	2.4	.5	4.7	.0	3.0	.0	.2	10.9	2.0	.4	22.9	.3	.6	.3	62.8
SW	2.5	.1	2.7	.0	8.8	.0	.0	14.0	3.5	.0	16.3	.3	.4	.7	64.8
W	2.8	.1	1.9	.0	11.9	.0	.0	16.2	2.7	.1	17.4	.7	.1	.1	62.8
NW	2.0	.1	4.1	.0	12.9	.2	*	19.1	3.2	.1	12.1	1.2	.3	.4	63.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	.0	.6	.0	1.4	.4	.0	3.6	2.5	.0	27.3	.3	.1	.0	66.2
TOT PCT	3.5	.3	3.1	*	10.7	.2	.1	17.6	3.0	.2	18.7	.4	.4	.3	59.4
TOT OBS:	6557														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	3.0	.2	3.1	.0	9.5	.2	.0	16.0	2.5	.4	20.0	.5	.6	.3	59.8
06009	2.7	.1	2.4	.3	10.1	.0	*	15.6	3.4	.0	18.3	.4	.5	.4	61.3
12015	3.7	.5	3.3	.0	11.4	.3	.2	18.9	3.4	.2	17.5	.6	.4	.3	58.9
18021	4.6	.6	4.1	.0	10.2	.3	.0	19.3	3.1	.1	19.8	*	.2	.4	57.0
TOT PCT OBS:	3.5 7050	.3	3.2	.1	10.3	.2	.1	17.4	3.1	.2	18.9	.4	.4	.3	59.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.6	3.8	5.5	2.8	.5	.1		13.3	15.4		13.0	8.6	12.2	15.4	13.5	16.0	14.3	8.1
NE	.3	3.1	3.7	1.2	.3	*		8.6	14.3		9.6	10.6	9.0	5.7	8.3	5.5	8.2	4.0
E	.4	2.7	2.6	1.3	.3	.0		7.3	15.4		9.1	7.4	7.1	3.7	7.3	2.9	6.8	3.3
SE	.5	4.0	4.6	1.5	.3	.0		10.9	16.2		9.2	13.9	11.9	17.5	11.5	13.2	8.9	11.8
S	.7	5.5	7.3	1.5	.2	.0		15.1	14.3		13.7	14.5	14.7	22.6	15.4	13.3	15.6	16.8
SW	.4	3.7	4.6	1.0	.2	*		9.9	13.5		10.7	10.3	9.7	3.3	9.4	7.4	10.3	11.3
W	.4	3.6	5.8	3.3	.8	.2		14.0	15.7		13.5	11.1	15.0	8.8	13.7	4.9	13.9	13.5
NW	.3	2.8	7.3	4.8	1.0	.1		16.3	17.3		16.7	11.0	16.0	16.4	16.6	13.3	16.1	17.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0		4.5	1.4	4.7	6.6	4.3	1.3	6.0	2.2
TOT OBS							6141		15.0		1530	167	1323	154	1493	154	1179	141
TOT PCT	8.2	29.1	41.3	17.4	3.6	.4		100.0			100.0	88.9	100.0	100.0	100.0	77.8	100.0	88.9

TABLE 3A

WND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.2	5.0	4.7	1.1	.4		13.3	15.4	13.2	12.3	13.7	14.0	
NE	1.7	4.1	2.0	.7	*		8.6	14.3	9.3	8.7	8.3	7.9	
E	1.7	3.1	1.8	.7	*		7.3	15.4	8.6	6.9	7.0	6.6	
SE	2.2	4.9	3.0	.8	*		10.9	16.2	9.7	12.5	11.7	9.4	
S	2.8	7.6	4.2	.4	*		15.1	14.3	14.1	15.5	15.5	15.8	
SW	2.0	5.0	2.3	.5	*		9.9	13.5	10.8	9.1	9.5	10.3	
W	1.9	5.3	4.4	2.0	.4		14.0	15.7	13.5	14.8	13.8	14.1	
NW	1.3	5.1	7.3	2.1	.5		16.3	17.3	16.7	15.8	16.6	16.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.5						4.5	.0	4.2	4.5	6.0	5.8	
TOT OBS						6141		15.0	1697	1477	1647	1320	
TOT PCT	20.4	40.2	29.7	8.2	1.5		100.0		100.0	100.0	100.0	100.0	

JANUARY, MAY - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974

AREA 0019 OKHOTSK SEA SW
J1.8N 146.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.2	3.4	28.1	42.3	17.7	4.0	.3	15.3	100.0	1697
06009	4.5	3.8	26.1	41.8	20.8	2.9	.2	15.4	100.0	1477
12015	4.0	4.1	31.8	40.1	15.5	4.0	.5	14.7	100.0	1647
18021	5.8	3.2	30.3	40.8	16.0	3.2	.7	14.4	100.0	1320
TOT								15.0		6141
PCT	4.5	3.7	29.1	41.3	17.4	3.6	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.8	3.4	7.0		6.3
NE	.7	.4	1.9	6.0		6.9
E	.5	.2	1.2	5.8		7.1
SE	.7	.4	1.4	7.9		7.1
S	2.4	1.0	2.5	8.7		6.1
SW	2.3	.9	2.3	4.6		5.6
W	2.3	1.6	4.3	5.8		5.8
NW	1.7	1.4	5.9	7.4		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.3	.9	3.1		5.6
TOT OBS					4867	6.3
TOT PCT	12.9	6.9	23.8	56.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	3000 6499	3500 7999	4000 8000+	NM <5/8 ANY HGT	TOTAL OBS
N	2.3	*	.2	.6	2.4	3.7	.6	.2	.1	.1	2.6	
NE	1.6	.1	.2	.6	1.9	2.0	.7	.1	*	.1	1.6	
E	2.1	*	.2	.4	1.4	1.8	.5	.1	.1	.1	1.0	
SE	3.2	*	.1	.5	1.6	2.2	.8	.2	*	.1	1.8	
S	4.3	*	.1	.5	1.5	2.7	1.0	.2	.1	.1	4.0	
SW	1.8	*	.1	.3	1.1	2.1	.6	.1	.2	.1	3.8	
W	1.8	*	.2	.4	2.4	3.5	.8	.2	.1	.1	4.4	
NW	2.1	*	.3	.7	3.7	4.6	.7	.2	.2	*	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	.1	.1	.1	.5	.9	.2	*	*	*	1.5	
TOT OBS											4867	
TOT PCT	20.9	.4	1.6	4.0	16.4	23.6	6.0	1.3	.8	.7	24.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	.9	1.2	1.3	1.3	1.4	1.4	1.4	1.4
>7000	1.7	2.2	2.5	2.6	2.6	2.6	2.6	2.6
>5500	5.1	7.0	7.9	8.0	8.2	8.2	8.3	8.3
>4000	15.5	25.5	29.3	30.2	30.6	31.0	31.1	31.2
>2500	19.9	35.8	43.2	45.3	46.3	47.1	47.6	47.7
>1000	20.7	37.9	46.3	49.0	50.2	51.2	51.8	51.9
>500	21.0	38.7	47.4	50.4	51.6	52.7	53.4	53.4
>150	21.1	39.0	47.8	50.7	52.0	53.0	53.7	53.8
>0	21.2	40.4	51.2	55.8	58.6	65.0	73.6	75.4

TOTAL NUMBER OF OBS: 5135

PCT FREQ NM <5/8: 24.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.9	2.0	3.6	3.1	3.7	4.7	7.2	6.9	36.0	5745

JANUARY, MAY - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974AREA 0019 OKHOTSK SEA SW
51.0N 146.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.3	.2	.2	.2	.1	.5	.7	.0	.0	2.7	
	NO PCP	1.0	.8	1.4	2.4	3.5	1.3	1.1	.6	.0	1.2	13.2	
	TOT %	1.4	1.1	1.5	2.7	3.8	1.4	1.6	1.2	.0	1.2	15.9	
1/2<1	PCP	.4	.2	*	.1	.1	.2	.6	.7	.0	.0	2.2	
	NO PCP	.2	.2	*	.3	.2	.1	.1	.1	.0	.2	1.4	
	TOT %	.5	.3	.1	.4	.3	.3	.7	.8	.0	.2	3.6	
1<2	PCP	1.0	.3	.2	.3	.1	.2	.5	.9	.0	.1	3.6	
	NO PCP	.1	.2	.2	.2	.2	.1	.2	.4	.0	*	1.6	
	TOT %	1.0	.5	.4	.4	.3	.3	.8	1.4	.0	.1	5.2	
2<5	PCP	.8	.7	.5	.5	.4	.4	1.0	1.2	.0	*	5.5	
	NO PCP	.9	.7	.5	.8	1.2	.7	.8	1.3	.0	.3	7.4	
	TOT %	1.7	1.4	1.0	1.4	1.6	1.1	1.8	2.5	.0	.3	12.9	
5<10	PCP	.3	.4	.3	.4	.4	.3	.3	.7	.0	.1	3.4	
	NO PCP	2.7	1.7	1.9	2.2	3.0	1.9	2.8	3.7	.0	.9	20.9	
	TOT %	3.3	2.1	2.2	2.5	3.5	2.1	3.2	4.4	.0	1.0	24.3	
10+	PCP	.1	*	*	*	.1	*	.1	*	.0	.0	.4	
	NO PCP	4.7	3.5	2.2	3.3	5.6	4.6	5.9	6.0	.0	2.0	37.7	
	TOT %	4.8	3.5	2.2	3.3	5.6	4.7	6.0	6.0	.0	2.0	38.1	
TOT OBS													6521
TOT PCT													
		12.8	9.0	7.5	10.7	15.1	9.9	14.0	16.3	.0	4.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	.3	.1	.1	*	.0	1.2	2.1	
	4-10	.7	.5	.6	1.2	1.4	.7	.7	.3	.0		6.2	
	11-21	.4	.4	.6	1.4	2.0	.8	.5	.4	.0		6.4	
	22+	.4	.1	.2	.3	.3	.1	.5	.7	.0		2.5	
	TOT %	1.6	1.1	1.6	2.9	3.9	1.7	1.9	1.4	.0	1.2	17.2	
1/2<1	0-3	*	*	.0	*	*	.0	*	.0	.0	.2	.3	
	4-10	.1	.1	*	.2	.2	.1	.1	*	.0		.8	
	11-21	.1	*	*	.1	.1	*	.2	.3	.0		.9	
	22+	.3	.2	*	.1	.1	.1	.4	.5	.0		1.7	
	TOT %	.6	.3	.1	.4	.3	.3	.8	.8	.0	.2	3.7	
1<2	0-3	.0	*	*	.0	*	.0	*	*	.0	.1	.2	
	4-10	.1	.1	.1	.1	.1	*	.1	.1	.0		.7	
	11-21	.3	.3	.1	.2	.2	.1	.1	.4	.0		1.7	
	22+	.6	.1	.2	.1	*	.1	.5	.8	.0		2.4	
	TOT %	1.1	.5	.4	.4	.3	.2	.7	1.4	.0	.1	5.0	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.3	.5	
	4-10	.4	.4	.2	.3	.5	.4	.5	.4	.0		3.1	
	11-21	.8	.5	.4	.7	.8	.6	.7	1.0	.0		5.6	
	22+	.5	.4	.3	.3	.3	.1	.6	1.1	.0		3.8	
	TOT %	1.8	1.4	1.0	1.4	1.7	1.1	1.8	2.6	.0	.3	13.0	
5<10	0-3	.2	.1	.1	.1	.1	.1	*	.1	.0	.9	1.5	
	4-10	.8	.6	.8	1.0	1.0	.7	.5	.7	.0		6.2	
	11-21	1.5	.9	.8	.9	1.8	1.0	1.4	2.1	.0		10.3	
	22+	.9	.4	.5	.6	.5	.3	1.0	1.4	.0		5.7	
	TOT %	3.4	2.0	2.2	2.5	3.5	2.1	2.9	4.3	.0	.9	23.7	
10+	0-3	.3	.1	.1	.3	.3	.2	.2	.2	.0	1.9	3.6	
	4-10	1.6	1.3	1.1	1.3	2.2	1.8	1.6	1.5	.0		12.3	
	11-21	2.4	1.6	.7	1.3	2.5	2.2	2.8	2.9	.0		16.4	
	22+	.6	.3	.3	.3	.4	.4	1.3	1.5	.0		5.1	
	TOT %	4.8	3.4	2.2	3.2	5.5	4.6	6.0	5.9	.0	1.9	37.4	
TOT OBS													5947
TOT PCT													
		13.2	8.7	7.3	10.8	15.2	9.9	14.1	16.2	.0	4.5	100.0	

JANUARY, MAY - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974AREA 0019 OKHOYSK SEA SW
51.0N 140.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	19.8	.2	2.3	4.3	16.7	25.1	5.9	1.4	1.2	.4	77.2	22.8	1581
06009	16.7	.6	1.5	4.8	18.4	24.5	6.4	1.2	.4	.5	75.0	25.0	1377
12015	24.5	.1	1.1	3.3	13.8	19.7	4.7	1.1	.9	.8	70.0	30.0	1298
18021	26.6	.5	1.0	4.1	15.1	20.2	5.3	1.0	1.0	.7	75.6	24.4	1039
TOT PCT	21.4	.3	1.5	4.1	16.2	22.7	5.6	1.2	.8	.6	74.6	25.4	5285 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	16.1	3.7	5.3	11.7	20.2	43.1	1991
06009	16.5	3.4	5.8	11.6	23.2	39.9	1749
12015	17.8	3.5	5.2	12.7	27.1	33.7	1903
18021	17.2	4.5	5.7	15.1	27.0	30.5	1531
TOT PCT	16.9	3.7	5.4	12.6	24.2	37.1	7174 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	19.9	26.1	40.2	39.2	20.6	1543
06009	17.2	22.8	38.6	38.6	22.7	1344
12015	24.7	28.6	42.1	30.8	27.1	1255
18021	26.9	31.4	46.0	32.3	21.7	993
TOT PCT	21.6	26.8	41.3	35.8	22.9	5135 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.1	.0	.2	.2	.0	.0	.0	.4	
60/64	.0	.1	.0	.0	.2	.0	.7	.1	1.1	
55/59	.0	.0	.3	.4	.1	.6	2.6	3.3	7.3	
50/54	.0	.0	.2	.2	.8	1.5	6.0	12.7	21.4	
45/49	.0	.0	.4	.2	.6	3.5	2.1	7.1	14.0	
40/44	.0	.0	.0	.0	.4	6.5	5.6	9.5	22.0	
35/39	.0	.0	.0	1.9	.8	.6	1.9	7.7	12.9	
30/34	.0	.0	.0	.0	.9	.0	3.6	9.3	13.8	
25/29	.0	.0	.0	.0	.8	.4	.1	.4	2.1	
20/24	.0	.0	.0	.0	2.6	.4	.0	.0	3.0	
15/19	.0	.0	.0	.0	.4	.8	.0	.7	1.9	
TOTAL PCT	.0	.2	1.0	3.7	7.3	14.3	22.5	51.0	583 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.2	.1	.8	.0	.0
.1	.2	.1	.3	.1	.2	.0	.8	.0	.1
.6	.5	.6	1.1	1.9	.7	1.1	.5	.0	.3
2.1	2.3	2.3	3.9	4.1	2.8	1.7	1.5	.0	.7
3.0	1.1	1.4	1.0	2.3	1.0	3.1	1.1	.0	.2
2.5	5.8	1.3	1.5	1.8	3.7	2.2	2.9	.0	.2
1.0	2.3	1.0	.2	.8	1.2	4.1	2.2	.0	.2
1.6	.7	2.9	5.2	1.6	.4	.4	1.0	.0	.0
.3	.0	.0	1.3	.3	.0	.2	.1	.0	.0
.0	.0	.0	.0	.0	.9	2.1	.0	.0	.0
.0	.0	.0	.0	.0	.0	1.6	.3	.0	.0
11.3	12.8	9.7	14.5	13.1	11.0	10.6	9.6	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	58	52	39	29	23	-4	42.6	1920
06009	75	57	51	39	29	24	-6	43.0	1721
12015	73	53	48	38	28	24	-2	41.0	1863
18021	75	54	48	37	27	21	-7	41.3	1527
TOT	77	57	50	38	28	23	-7	42.0	7031

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.8	8.9	14.7	19.7	49.9	86	150		
06009	.0	5.2	8.3	15.6	23.6	47.4	88	151		
12015	.0	2.6	4.3	10.5	30.9	51.7	89	133		
18021	.0	.4	6.0	11.4	21.4	49.6	90	141		
TOT	0	18	35	72	131	329	88	585		

JANUARY, MAY - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974AREA 0019 OKHOTSK SEA SW
51.8N 146.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	NO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	1	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	*	*	.0	5	*	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	*	*	*	.0	10	.1	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.1	.0	*	*	.1	*	17	.1	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.1	.1	.1	.1	*	.0	.0	16	*	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.2	.1	.1	*	.0	.0	39	.2	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.1	.1	.2	.4	.1	.1	.1	.0	97	.5	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.4	.2	.2	.2	.2	.1	*	.0	.0	102	.4	1.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.4	.3	.6	.3	.4	.1	*	.0	.0	.0	164	.6	2.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.3	.2	.2	.1	*	*	.0	.0	.0	70	.3	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.5	.8	.6	.8	.5	.2	.1	.0	*	.0	229	1.0	2.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.4	1.0	.8	.8	.4	.2	*	.0	.0	.0	288	1.2	3.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.4	.5	.4	.4	.2	*	*	.0	.0	.0	150	.7	2.0
2	.0	.0	.0	.0	.0	.0	.0	*	.8	.8	1.0	.9	1.2	1.6	.5	.1	.0	.0	.0	.0	485	2.3	5.6
1	.0	.0	.0	.0	.0	.0	.0	.4	.5	.5	.6	.6	.7	.6	.3	*	*	.0	.0	.0	229	.9	3.2
0	.0	.0	.0	.0	.0	.0	.0	1.3	1.0	1.6	1.7	1.7	1.8	.4	.1	.0	*	.0	.0	.0	637	2.7	8.6
-1	.0	.0	.0	.0	.0	.0	.0	.4	.6	.8	.6	.6	.9	.4	.1	*	*	.0	.0	.0	270	1.1	3.7
-2	.0	.0	.0	.0	.0	.0	*	.6	.9	1.0	.8	1.3	.9	.1	*	*	.0	.0	.0	.0	456	1.7	5.6
-3	.0	.0	.0	.0	.0	.0	.1	.3	.5	.6	.5	.3	.4	.3	.1	.0	.0	.0	.0	.0	177	.5	2.7
-4	.0	.0	.0	.0	.0	.0	.9	.8	.6	.8	.8	.9	.6	.3	*	*	.0	.0	.0	.0	330	1.0	4.7
-5	.0	.0	.0	.0	.0	.1	1.1	.8	.7	.7	.5	.7	.5	.2	*	*	.0	.0	.0	.0	307	.6	4.8
-6	.0	.0	.0	.0	.0	.1	.6	.3	.3	.1	.7	.1	.1	.1	*	*	.0	.0	.0	.0	104	.3	1.6
-7/-8	.0	.0	.0	.0	.0	.6	1.3	1.1	1.0	.5	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	315	.8	4.9
-9/-10	.0	.0	.0	.0	.1	1.1	1.2	.6	.5	.4	.2	.3	.1	.1	*	*	.0	.0	.0	.0	274	.3	4.0
-11/-13	.0	.0	.0	.0	1.0	2.2	1.2	.4	.2	.3	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	307	.3	5.6
-14/-16	.0	.0	.0	.1	2.1	.9	.8	.3	.1	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	222	.2	4.2
-17/-19	.0	.0	.1	.7	.8	.5	.2	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	119	.1	2.5
-20/-22	.0	.1	.9	.6	.5	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	.1	2.4
-23/-25	.0	.2	1.3	.3	.1	*	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	*	2.0
-26/-30	.1	.7	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	.3	.8
<-30	.8	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.2	.7
TOTAL																					5619		
PCT	1.0	1.0	2.6	1.8	4.6	5.7	7.6	6.9	8.9	9.7	9.5	13.1	10.6	9.7	4.0	2.1	.6	.3	.2	*	100.0	18.3	81.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.4	.1	1.0	.0	.0	.0	.0	1.1
1-2	.1	1.7	1.0	.0	.0	.0	2.8	*	1.2	1.0	.0	.0	.0	2.2
3-4	.0	.5	2.2	.7	.0	.0	2.9	.0	.5	1.2	.1	.0	.0	1.8
5-6	.0	.1	1.2	.9	.1	.0	2.2	.0	.2	.8	.4	.0	.0	1.4
7	.0	.1	.8	.5	.2	.0	1.5	.0	*	.4	.3	.1	.0	.8
8-9	.1	.0	.4	.5	.2	.1	1.4	.0	*	.2	.2	*	.0	.5
10-11	.0	*	.2	.6	.1	.0	.8	.0	.0	*	.2	.1	.0	.3
12	.0	*	*	.3	*	.0	.3	.0	.0	*	.1	.0	.0	.1
13-16	.0	.0	.1	.2	.1	*	.4	.0	.0	.0	.2	.1	*	.3
17-19	.0	.0	.0	.0	*	.0	*	.0	*	.0	*	*	.0	*
20-22	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.4	5.9	3.2	.7	.1	14.0	.1	3.0	3.7	1.6	.3	*	8.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3	.3	1.2	*	.0	.0	.0	1.6
1-2	*	1.1	.9	.0	.0	.0	2.0	.1	1.4	1.2	.0	.0	.0	2.7
3-4	.0	.3	.9	.1	.0	.0	1.4	.0	.6	1.8	.3	.0	.0	2.7
5-6	.0	.1	.6	.2	.0	.0	.9	.0	.1	.8	.2	*	.0	1.1
7	.0	.1	.3	.4	.1	.0	.8	.0	.0	.4	.3	*	.0	.8
8-9	.0	.0	.1	.3	.1	.0	.5	.0	.0	.3	.2	*	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.1	.0	.3
12	.0	.0	*	.1	.1	.0	.2	.0	.0	.0	.1	*	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	*	.2	.1	.0	.3
17-19	.0	*	.0	.0	*	.0	*	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	2.8	1.4	.4	.0	7.6	.4	3.3	4.7	1.8	.3	.0	10.3

PERIOD: (OVER-ALL) 1963-1974

JANUARY, MAY - DECEMBER

AREA 0019 OKHOTSK SEA SW
51.8N 146.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.0	.1	.0	.0	.0	2.3	.1	1.2	.2	.0	.0	.0	1.5
1-2	.1	2.2	1.5	.0	.0	.0	3.8	.1	1.4	1.1	.0	.0	.0	2.6
3-4	.0	.8	2.3	.2	.0	.0	3.3	*	.6	1.7	.1	.0	.0	2.5
5-6	.0	.1	1.8	.3	.0	.0	2.2	.0	.1	1.1	.2	*	.0	1.5
7	.0	*	.6	.3	*	.0	.9	.0	.0	.3	.3	*	.0	.6
8-9	.0	.1	.4	*	*	.0	.6	.0	.0	.2	.2	*	.0	.4
10-11	.0	.0	*	.3	*	.0	.4	.0	*	.1	.1	*	.0	.3
12	.0	.0	.0	.1	*	.0	.2	.0	.0	*	.0	*	.0	.1
13-16	.0	.0	.1	.1	.0	.0	.3	.0	*	*	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	6.8	1.4	.3	.0	13.9	.2	3.4	4.9	1.1	.2	.0	9.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	*	.0	.0	.0	1.1	.2	.7	*	.0	.0	.0	.9	
1-2	.1	1.1	1.3	.0	.0	.0	2.4	.0	.9	1.7	.0	.0	.0	2.5	
3-4	.0	.5	2.3	.4	.0	.0	3.2	.0	.3	2.1	.6	.0	.0	3.0	
5-6	.0	.1	1.0	1.0	.1	.0	2.2	.0	.1	2.2	.8	*	.0	3.1	
7	.0	.1	.7	.9	.1	.0	1.8	.0	*	1.3	1.2	.1	.0	2.6	
8-9	.0	.0	.2	.6	.1	*	1.0	.0	.1	.4	.8	.1	.0	1.4	
10-11	.0	.0	.3	.5	.2	*	.9	.0	.0	.2	.8	.2	*	1.2	
12	.0	.0	*	.2	.1	*	.4	.0	.0	*	.2	.1	*	.5	
13-16	.0	.0	*	.1	.2	*	.4	.0	.0	*	.4	.1	.1	.5	
17-19	.0	.0	*	.0	.1	*	.1	.0	.0	*	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	.1	*	.2	
23-25	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	*	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.6	5.9	3.7	1.0	.1	13.7	.2	2.1	7.9	4.8	1.0	.1	16.1	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.5	9.1	.5	.0	.0	.0	17.1	
1-2	.5	10.9	9.7	.0	.0	.0	21.1	
3-4	*	4.2	14.6	2.1	.0	.0	20.9	
5-6	.0	.8	9.5	4.0	.2	.0	14.6	
7	*	.4	4.7	4.2	.5	.0	9.9	
8-9	.1	.1	2.3	2.9	.6	.1	6.3	
10-11	.0	.1	.9	2.7	.7	.1	4.5	
12	.0	*	.2	1.1	.4	*	1.6	
13-16	.0	*	.3	1.2	.9	.1	2.6	
17-19	.0	*	*	.1	.2	*	.4	
20-22	.0	.0	*	.4	.2	*	.7	
23-25	.0	.0	.0	*	.3	.0	.3	
26-32	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	*	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	25.6	42.8	18.8	4.2	.4	100.0	3527

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	8.6	10.1	6.7	3.6	2.0	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1807	4
6-7	*	.6	2.5	3.3	3.7	1.7	1.7	.6	.6	.1	.3	*	.0	.0	.0	.0	.0	.0	.0	829	7
8-9	.0	.3	1.3	1.2	1.0	1.6	1.4	.7	.8	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	471	8
10-11	.0	.8	.2	.3	.7	.4	.4	.3	.3	.1	.1	.9	.0	.0	.0	.0	.0	.0	.0	183	8
12-13	.0	.0	.7	.3	.3	.3	.2	.2	.2	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	132	8
>13	.0	.0	.0	.1	.1	.1	.2	.1	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	67	12
INDET	5.4	4.0	8.1	7.1	5.6	3.2	1.4	.5	1.0	.1	*	.1	*	*	.0	.0	.0	.0	.0	2179	5
TOTAL PCT	5.9	14.2	22.8	19.1	15.0	9.4	6.0	2.6	3.0	.7	.7	.4	*	*	.0	.0	.0	.0	.0	100.0	5

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974

TABLE 20

AREA 0019 OKHOTSK SEA SW
51.8N 140.7E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	*
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	2	*
67/68	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0	7	.1
65/66	.0	.0	.0	.0	.0	.0	.0	.3	.4	.0	.0	.0	6	.1
63/64	.0	.0	.0	.0	.0	.0	.6	2.4	1.2	.0	.0	.0	37	.6
61/62	.0	.0	.0	.0	.0	.0	.3	3.5	1.2	.0	.0	.0	45	.8
59/60	.0	.0	.0	.0	.0	.0	1.3	5.2	4.1	.2	.0	.0	96	1.6
57/58	.0	.0	.0	.0	.0	.0	2.5	9.2	8.6	1.0	.0	.0	190	3.2
55/56	.0	.0	.0	.0	.0	.0	3.2	16.0	14.6	1.7	.0	.0	316	5.3
53/54	.0	.0	.0	.0	.0	.8	7.3	27.4	15.3	3.9	.1	.0	491	8.1
51/52	.0	.0	.0	.0	.0	.9	11.7	14.3	18.1	5.7	.3	.0	450	7.6
49/50	.0	.0	.0	.0	.0	1.2	16.5	9.2	15.9	11.2	.6	.6	486	8.2
47/48	.0	.0	.0	.0	.9	4.5	12.6	5.8	7.2	12.9	1.8	.6	402	6.8
45/46	.7	.0	.0	.0	.9	12.3	22.3	4.3	9.5	26.5	6.0	1.4	721	12.1
43/44	4.0	.0	.0	.0	2.3	16.2	9.8	1.1	2.1	17.4	7.6	1.0	478	8.0
41/42	3.6	.0	.0	.0	5.6	19.6	5.0	.3	.7	11.4	14.7	2.4	448	7.5
39/40	1.4	.0	.0	.0	10.7	16.8	3.7	.5	.2	5.4	18.7	5.7	408	6.9
37/38	3.6	.0	.0	.0	16.8	10.3	.5	.0	.0	1.0	20.7	8.8	333	5.6
35/36	18.6	.0	.0	.0	20.1	8.5	.5	.0	.0	.2	13.4	15.9	317	5.3
33/34	19.3	.0	.0	.0	25.7	4.9	1.9	.0	.0	1.5	11.5	25.3	362	6.1
31/32	27.9	.0	.0	.0	15.0	3.4	.3	.0	.0	.0	3.0	30.0	267	4.5
29/30	17.9	.0	.0	.0	1.9	.4	.0	.0	.0	.0	1.3	7.1	77	1.3
27/28	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	9	.2
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	140	0	0	0	214	668	784	931	849	1075	798	490	5949	100.0
MEAN	33.8				35.8	40.7	47.7	53.4	51.7	45.7	38.6	34.4	42.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007		1005	998	1007		1005	1004	1006	193
FEB										
MAR										
APR										
MAY	1011	1006	1013	1016	1014	1011	1016		1013	256
JUN	1013	1012	1011	1008	1012	1013	1012	1012	1012	693
JUL	1012	1006	1010	1006	1011	1006	1011	1005	1010	860
AUG	1011	1009	1011	1008	1011	1008	1011	1008	1010	1004
SEP	1014	1013	1013	1012	1014	1013	1014	1009	1014	999
OCT	1013	1010	1012	1011	1013	1008	1012	1008	1012	1212
NOV	1010	1012	1010	1010	1010	1014	1011	1002	1010	1010
DEC	1009	1013	1007	1022	1009		1010	1017	1009	680
ANN	1011	1010	1010	1010	1011	1010	1011	1008	1011	6907
OBS	1749	143	1541	136	1714	151	1350	123		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	973	978	990	1000	1006	1013	1023	1025	1026
FEB									
MAR									
APR									
MAY	988	992	1000	1008	1013	1018	1027	1032	1034
JUN	986	989	998	1008	1012	1017	1024	1026	1033
JUL	990	993	997	1006	1011	1014	1020	1028	1032
AUG	978	993	998	1006	1011	1015	1020	1025	1032
SEP	979	984	996	1008	1014	1019	1029	1034	1038
OCT	982	987	992	1006	1013	1019	1028	1036	1039
NOV	965	973	993	1005	1011	1017	1024	1027	1034
DEC	967	982	990	1001	1009	1016	1026	1028	1031

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 143.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG JUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	41.8	1.4	.0	43.3	6.3	.0	1.4	1.4	.0	1.9	45.7
NE	.0	.0	.0	.0	43.0	.0	.0	43.0	10.7	.0	5.4	.0	.0	.0	40.9
E	.0	.0	.0	.0	11.5	.0	.0	11.5	4.9	.0	.0	.0	.0	.0	83.6
SE	.0	.0	.0	.0	31.0	.0	.0	31.0	3.4	.0	.0	.0	.0	.0	65.3
S	.0	.0	18.2	.0	50.0	.0	.0	68.2	.0	.0	.0	.0	.0	.0	31.8
SW	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
W	.0	.0	.0	.0	26.2	.0	.0	26.2	7.1	.0	.0	.0	.0	.0	66.7
NW	.0	.0	.0	.0	33.3	3.9	.0	37.2	9.3	.0	.8	.8	.0	.0	31.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	50.0	.0	.0	50.0	.0	.0	50.0	.0	.0	.0	.0
TOT PCT	.0	.0	.6	.0	36.4	1.2	.0	38.2	7.3	.0	2.4	.6	.0	.6	50.9
TOT OBS:	165														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.0	.0	.0	.0	35.6	.0	.0	35.6	3.4	.0	5.1	.0	.0	.0	55.9
06009	.0	.0	.0	.0	36.6	2.4	.0	39.0	7.3	.0	.0	.0	.0	.0	53.7
12015	.0	.0	1.8	.0	34.5	1.8	.0	38.2	7.3	.0	1.8	.0	.0	1.8	50.9
18021	.0	.0	.0	.0	38.7	.0	.0	38.7	16.1	.0	.0	3.2	.0	.0	41.9
TOT PCT	.0	.0	.5	.0	36.0	1.1	.0	37.6	7.5	.0	2.2	.5	.0	.5	51.6
TOT OBS:	186														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	8.2	16.7	4.5	2.8	.5		32.6	17.5		31.4	50.0	32.6	25.0	31.5	37.5	35.0	25.0
NE	.0	6.8	9.4	4.0	2.8	.0		23.0	18.0		19.1	25.0	22.0	.0	27.2	12.5	29.0	.0
E	.0	6.5	2.3	.0	.6	.0		9.4	10.4		17.0	.0	6.1	.0	7.6	.0	7.0	.0
SE	.0	3.7	.8	.0	.0	.0		4.5	8.3		9.6	.0	.8	.0	5.4	.0	.0	.0
S	.0	.6	1.5	.6	.6	.0		3.4	20.9		3.7	.0	5.3	.0	2.2	50.0	.0	.0
SW	.0	.3	.9	.0	.0	.0		1.2	15.0		.5	.0	.0	.0	2.7	.0	.0	16.7
W	.6	.9	.5	2.2	1.1	.0		5.2	22.1		2.1	.0	11.4	.0	4.9	.0	4.0	16.7
NW	.0	2.6	9.3	5.4	2.0	.2		19.4	20.3		14.4	25.0	22.0	75.0	18.5	.0	21.0	41.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		2.1	.0	.0	.0	.0	.0	4.0	.0
TOT OBS	3	48	67	27	16	1	162		17.2		47	4	33	2	46	2	25	3
TOT PCT	1.9	29.6	41.4	16.7	9.9	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.8	17.0	7.6	4.8	.5		32.6	17.5	32.8	32.1	31.8	33.9
NE	2.9	9.0	6.9	2.9	1.2		23.0	18.0	19.6	20.7	26.6	23.9
E	6.0	1.7	1.1	.6	.0		9.4	10.4	15.7	5.7	7.3	6.3
SE	1.7	2.8	.0	.0	.0		4.5	8.3	8.8	.7	5.2	.0
S	.6	.9	.6	1.2	.0		3.4	20.9	3.4	5.0	4.2	.0
SW	.0	.6	.6	.0	.0		1.2	15.0	.5	.0	2.6	1.8
W	1.2	.8	1.1	1.7	.5		5.2	22.1	2.0	10.7	4.7	5.4
NW	.2	8.6	6.2	3.5	.9		19.4	20.3	15.2	25.0	17.7	23.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	2.0	.0	.0	3.6
TOT OBS	27	67	39	24	5	162		17.2	51	35	48	28
TOT PCT	16.7	41.4	24.1	14.8	3.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1965-1974
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48.7N 145.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00Z03	2.0	2.0	41.2	43.1	7.8	3.9	.0	13.2	100.0	51
06Z09	.0	.0	11.4	42.9	28.6	17.1	.0	22.1	100.0	35
12Z15	.0	.0	37.5	33.3	14.6	12.5	2.1	17.9	100.0	48
18Z21	3.6	.0	17.9	50.0	21.4	7.1	.0	16.8	100.0	28
TOT	2	1	48	67	27	16	1	17.2		162
PCT	1.2	.6	29.6	41.4	16.7	9.9	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

BY WIND DIRECTION						MEAN
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CDS	CLOUD COVER
N	1.3	2.0	13.8	13.4		6.5
NE	1.7	.9	10.7	9.9		6.5
E	1.5	1.8	4.2	2.0		5.3
SE	.7	.2	1.7	1.7		6.1
S	.6	.7	.0	2.0		6.1
SW	.2	.0	.7	.7		6.8
W	.7	.0	1.5	2.8		6.2
NW	2.9	1.7	9.4	7.0		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.5		8.0
TOT OBS	13	10	57	56	136	6.2
TOT PCT	9.6	7.4	41.9	41.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.1	.0	.0	2.8	5.1	7.4	5.0	1.3	1.3	.0	4.8	
NE	1.8	.0	.0	.2	1.5	11.0	2.9	.0	.2	.7	4.8	
E	.0	.0	.0	.0	.7	1.3	2.2	.0	.7	.0	4.6	
SE	.0	.2	.0	.0	.7	2.2	.0	.0	.0	.0	1.1	
S	.0	.6	.0	.7	.7	.0	.0	.0	.0	.0	1.3	
SW	.0	.0	.0	.7	.0	.0	.0	.0	.7	.0	.2	
W	.7	.0	.0	.8	.7	.7	.7	.0	.0	.7	.7	
NW	.9	.0	.0	.2	8.1	3.9	3.1	.2	.0	.0	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	11	1	0	7	24	36	19	2	4	2	30	136
TOT PCT	8.1	.7	.0	5.1	17.6	26.5	14.0	1.5	2.9	1.5	22.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.7	3.4	4.1	4.1	4.1	4.1	4.1	4.1
>5000	3.4	4.7	5.4	5.4	5.4	5.4	5.4	5.4
>3500	10.8	12.8	16.9	17.6	19.6	20.3	20.3	20.3
>2000	18.9	28.4	39.9	43.9	46.6	47.3	48.0	48.0
>1000	21.6	35.1	50.0	56.8	60.8	61.5	62.8	62.8
>600	22.3	35.8	52.0	61.5	65.5	66.9	68.2	68.2
>300	22.3	35.8	52.0	61.5	65.5	66.9	68.2	68.2
>150	22.3	36.5	52.7	62.2	66.2	67.6	68.9	68.9
>0	23.0	38.5	56.1	66.2	73.0	77.0	78.4	78.4
TOTAL	34	57	83	98	108	114	116	116

TOTAL NUMBER OF OBS: 148

PCT FREQ NH <5/8: 21.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSD	TOTAL OBS
	3.0	1.2	7.9	4.8	3.0	10.9	10.9	16.4	36.5	7.3	165

PERIOD: (PRIMARY) 1965-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	1.8	.0	.6	.0	.6	1.2	.6	.0	.0	5.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.6	1.8	.0	.6	.0	.6	1.2	.6	.0	.0	6.1	
1/2<1	PCP	2.0	1.5	.0	.0	.0	.0	.0	2.6	.0	.6	6.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.0	1.5	.0	.0	.0	.0	.0	2.6	.0	.6	6.7	
1<2	PCP	3.2	1.8	.5	.6	.6	.0	.0	1.2	.0	.0	8.0	
	NO PCP	.6	.6	.5	.2	.0	.0	.6	.0	.0	.0	2.5	
	TOT %	3.8	2.5	.9	.8	.6	.0	.6	1.2	.0	.0	10.4	
2<5	PCP	4.8	4.4	.0	.0	.6	.0	.0	.5	.0	.0	10.4	
	NO PCP	2.6	2.5	.5	.2	.0	.0	.5	1.8	.0	.0	8.0	
	TOT %	7.5	6.9	.5	.2	.6	.0	.5	2.3	.0	.0	18.4	
5<10	PCP	3.1	.2	.0	.2	1.1	.0	.5	1.2	.0	.0	6.1	
	NO PCP	4.1	2.0	.6	.0	.0	.0	1.2	3.7	.0	.0	11.7	
	TOT %	7.2	2.1	.6	.2	1.1	.0	1.7	4.9	.0	.0	17.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
	NO PCP	10.7	8.0	6.7	2.8	1.1	1.2	2.5	6.9	.0	.0	39.9	
	TOT %	10.7	8.0	6.7	2.8	1.1	1.2	2.5	7.5	.0	.0	40.5	
TOT OBS													163
TOT PCT		31.9	22.9	8.7	4.4	3.4	1.8	6.4	19.2	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.6	.0	.6	.0	.0	.0	.6	.0	.0	1.9	
	22+	.6	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	3.2	
	TOT %	.6	1.9	.0	.6	.0	.0	1.3	.6	.0	.6	5.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	11-21	.5	.8	.0	.0	.0	.0	.0	.6	.0	.0	1.9	
	22+	.5	.6	.0	.0	.0	.0	.0	2.1	.0	.0	3.2	
	TOT %	2.1	1.6	.0	.0	.0	.0	.0	2.7	.0	.6	7.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.6	.5	.8	.0	.0	.0	.0	.0	.0	1.9	
	11-21	1.8	1.6	.5	.0	.0	.0	.0	.6	.0	.0	4.5	
	22+	2.2	.3	.0	.0	.6	.0	.0	.6	.0	.0	3.8	
	TOT %	4.0	2.5	1.0	.8	.6	.0	.0	1.3	.0	.0	10.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.8	2.5	.5	.2	.0	.0	.0	.8	.0	.0	5.7	
	11-21	4.3	1.4	.0	.0	.6	.0	.0	.6	.0	.0	7.0	
	22+	1.1	3.2	.0	.0	.0	.0	.5	1.0	.0	.0	5.7	
	TOT %	7.2	7.2	.5	.2	.6	.0	.5	2.4	.0	.0	18.5	
5<10	0-3	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
	4-10	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.3	
	11-21	3.8	1.9	.0	.2	.5	.0	.0	1.9	.0	.0	8.3	
	22+	3.0	.3	.0	.6	.0	.5	1.9	.0	.0	.0	6.4	
	TOT %	7.5	2.2	.0	.2	1.1	.0	1.1	4.5	.0	.0	16.6	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	4.9	3.7	5.1	2.9	.6	.3	1.0	1.3	.0	.0	19.7	
	11-21	6.2	3.3	1.9	.0	.5	1.0	.5	4.5	.0	.0	17.8	
	22+	.0	1.3	.0	.0	.0	.0	1.1	2.1	.0	.0	4.5	
	TOT %	11.1	8.3	7.0	2.9	1.1	1.3	2.5	7.8	.0	.0	42.0	
TOT OBS													137
TOT PCT		32.5	23.7	8.4	4.6	3.5	1.3	5.4	19.3	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	7.4	.0	.0	7.4	11.1	25.9	14.8	1.9	3.7	.0	72.2	27.8	54
06009	5.6	2.8	.0	8.3	13.9	30.6	19.4	2.8	.0	2.8	86.1	13.9	36
12015	11.9	.0	.0	.0	19.0	28.6	11.9	.0	2.4	.0	73.8	26.2	42
18021	14.3	.0	.0	4.8	33.3	19.0	9.5	.0	4.8	4.8	90.5	9.5	21
TOT	14	1	0	8	26	41	22	2	4	2	120	33	153
PCT	9.2	.7	.0	5.2	17.0	26.8	14.4	1.3	2.6	1.3	78.4	21.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.1	3.4	10.2	22.0	8.5	50.8	59
06009	5.1	7.7	12.8	7.7	15.4	51.3	39
12015	7.3	10.9	9.1	25.5	14.5	32.7	55
18021	6.5	3.2	9.7	22.6	32.3	25.8	31
TOT	11	12	19	37	29	76	184
PCT	6.0	6.5	10.3	20.1	15.8	41.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.5	13.2	41.5	30.2	28.3	53
06009	5.9	14.7	32.4	52.9	14.7	34
12015	12.5	22.5	55.0	22.5	22.5	40
18021	14.3	19.0	47.6	42.9	9.5	21
TOT	14	25	65	52	31	148
PCT	9.5	16.9	43.9	35.1	20.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	4.2	.0	.0	1	4.2
35/39	.0	.0	.0	.0	4.2	.0	.0	.0	1	4.2
30/34	.0	.0	.0	.0	.0	16.7	8.3	.0	6	25.0
25/29	.0	.0	.0	.0	4.2	25.0	16.7	.0	11	45.8
20/24	.0	.0	.0	.0	.0	4.2	.0	.0	1	4.2
15/19	.0	.0	.0	4.2	4.2	8.3	.0	.0	4	16.7
TOTAL	0	0	0	1	3	13	7	0	24	100.0
PCT	.0	.0	.0	4.2	12.5	54.2	29.2	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.0	.0	.0	.0	.0	.0	3.1	1.0	.0	.0
35/39	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0
30/34	8.3	12.5	.0	.0	.0	.0	.0	4.2	.0	.0
25/29	27.1	16.7	.0	.0	.0	.0	.0	2.1	.0	.0
20/24	3.1	.0	.0	.0	.0	.0	.0	1.0	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0
TOTAL	38.5	29.2	.0	.0	.0	.0	3.1	29.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	35	23	8	0	0	22.6	59
06009	41	40	34	27	12	10	10	25.2	40
12015	48	47	36	23	7	5	5	22.4	56
18021	57	56	32	27	6	3	3	24.2	31
TOT	57	46	35	25	8	3	0	23.4	186

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.1	18.2	54.5	18.2	.0	.0	.0	72	11
06009	.0	16.7	33.3	33.3	16.7	.0	.0	.0	69	6
12015	.0	.0	16.7	83.3	.0	.0	.0	.0	72	6
18021	.0	.0	.0	44.4	55.6	.0	.0	.0	79	9
TOT	0	2	5	17	8	0	73	32		

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

TABLE 17

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	23 28	29 32	33 36	37 40	41 44	43 48	TOT	N FOG	W FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	1	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	4	.0	2.5
3	.0	.0	.0	.0	.0	.0	.0	1.9	1.2	.6	.0	.0	6	.0	3.7
2	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	5	.6	2.5
1	.0	.0	.0	.0	.0	.0	.0	.6	1.9	1.2	.0	.0	6	.0	3.7
0	.0	.0	.0	.0	.0	.0	.0	1.9	2.5	.0	.0	.0	7	.0	4.3
-1	.0	.0	.0	.0	.0	.0	.0	4.9	3.1	.0	.0	.0	13	.0	8.0
-2	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	2	.0	1.2
-3	.0	.0	.0	.0	.0	.0	.0	4.9	3.1	1.2	.0	.0	13	.0	9.3
-4	.0	.0	.0	.0	.0	.0	.0	1.2	1.9	4.3	.0	.0	12	.0	7.4
-5	.0	.0	.0	.0	.0	.0	.0	1.2	2.5	1.2	.0	.0	8	.0	4.9
-6	.0	.0	.0	.0	.0	.0	.0	.6	3.7	1.9	.6	.0	11	.0	6.8
-7/-8	.0	.0	.0	.0	.0	.0	.0	1.2	3.1	.0	.0	.0	8	.6	4.3
-9/-10	.0	.0	.0	.0	.0	.0	.0	.6	1.2	3.1	.0	.0	12	.0	7.4
-11/-13	.0	.0	.0	.0	.0	4.3	2.5	.0	.0	.0	.0	.0	16	.6	9.9
-14/-16	.0	.0	.0	.6	1.9	6.2	1.2	.0	.0	.0	.0	.0	14	.0	8.6
-17/-19	.0	.0	.6	4.9	2.5	.0	.6	.0	.0	.0	.0	.0	7	.0	4.3
-20/-22	.0	.6	1.9	.0	.6	1.2	.0	.0	.0	.0	.0	.0	7	.0	4.3
-23/-25	.0	.6	1.9	.6	1.2	.0	.0	.0	.0	.0	.0	.0	8	.0	4.9
-26/-30	1.2	3.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.9
TOTAL	2	7	8	13	25	41	38	8	2	2	1	162	100.0	1.9	98.1
PCT	1.2	4.3	4.9	8.0	15.4	9.3	25.3	23.5	4.9	1.2	1.2	.6			

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.0	.0	.0	.0	.0	5.0	<1	.0	4.7	2.6	.0	.0	.0	7.3
1-2	.0	2.6	3.9	.0	.0	.0	6.5	1-2	.0	.0	1.9	.0	.0	.0	1.9
3-4	.0	.0	7.3	.0	.0	.0	7.3	3-4	.0	.0	1.1	.9	.0	.0	1.9
5-6	.0	.0	3.0	2.4	.6	.0	6.0	5-6	.0	.9	1.1	.0	.2	.0	2.2
7	.0	.0	2.4	1.9	.9	.0	5.2	7	.0	.0	1.7	.2	.0	.0	1.9
8-9	.0	.0	.0	.6	.9	.0	1.5	8-9	.0	.0	.0	.2	.9	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	1.3	.6	.0	1.9	13-16	.0	.0	1.1	2.6	1.9	.0	5.6
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.9	.0	.9
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.5	16.6	6.3	3.0	.0	33.4	TOT PCT	.0	5.6	10.3	4.7	3.9	.0	24.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.4	.0	.0	.0	.0	5.4	<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	.9	.0	.0	.0	.0	.9	1-2	.0	.0	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.9	.0	1.7	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.0	.9	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.6	.0	.0	.0	.6	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.6	.0	.0	.0	.0	.6	17-19	.0	.2	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.9	2.4	.0	.9	.0	10.1	TOT PCT	.0	3.0	.2	.0	.0	.0	3.2

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.0	.0	.0	.0		.9	.0	.0	.0	.0	.0	.0		.0
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.9	.0	.0	.0		.9	.0	.0	.9	.0	.0	.0		.9
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.9	.0		.9	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.9	1.5	.0	.9	.0		3.2	.0	.0	1.1	.0	.0	.0		1.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	.0		.2	
1-2	.0	.0	.0	.0	.0	.0		.0	.0	1.7	6.2	.0	.0	.0		8.0	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	1.7	3.7	2.6	.0	.0		8.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	1.3	.0	.0		1.5	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.4	.0	.0		.6	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.9	.0		.9	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.9	.9	.0		1.7	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	.0	.6	1.5	.9	.0		3.0	.0	3.7	10.3	5.6	.9	.0		20.5	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	18.1	2.6	.0	.0	.0	21.6	
1-2	.0	6.0	12.9	.0	.0	.0	19.0	
3-4	.0	1.7	12.9	3.4	.0	.0	18.1	
5-6	.0	.9	4.3	4.3	.9	.0	10.3	
7	.0	.0	6.9	2.6	1.7	.0	11.2	
8-9	.0	.0	.0	.9	1.7	.0	2.6	
10-11	.0	.0	1.7	.9	.0	.0	2.6	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	1.7	4.3	3.4	.0	9.5	
17-19	.0	.9	.0	.9	.9	.0	2.6	
20-22	.0	.0	.0	.0	.9	.0	.9	
23-25	.0	.0	.0	.0	.9	.0	.9	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	27.6	43.1	18.1	10.3	.0	100.0	116

PERIOD: (OVER-ALL) 1960-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	6.7	10.1	4.0	2.7	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	4
6-7	.0	.0	1.3	4.0	4.7	2.0	2.7	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	25	8
8-9	.0	.0	1.3	1.3	2.0	.7	.0	.7	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	9
10-11	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.0	.0	.0	.7	.0	1.3	1.3	.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	8	17
INDET	12.8	11.4	2.7	2.7	.7	.0	2.0	.7	4.0	1.3	.7	1.3	.7	.0	.0	.0	.0	.0	.0	.0	61	5
TOTAL	19	27	23	19	16	6	9	2	16	4	3	5	1	0	0	0	0	0	0	0	149	6
PCT	12.8	18.1	15.4	12.8	10.7	4.0	6.0	1.3	10.7	2.7	1.3	3.4	.7	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1974
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AREA 0020 SAKHALIN ISLAND SE
48.7N 143.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	17.6	.0	.0	23.5	.0	.0	41.2	.0	.0	17.6	.0	.0	.0	41.2
NE	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	7.7	.0	.0	.0	84.6
E	25.0	.0	.0	.0	.0	.0	.0	25.0	11.1	.0	19.4	.0	.0	.0	44.4
SE	11.5	.0	.0	.0	5.1	.0	.0	16.7	10.3	.0	15.4	.0	5.1	.0	52.6
S	1.9	.0	.0	.0	2.9	.0	.0	4.8	.0	.0	3.8	.0	.0	.0	91.3
SW	6.1	.0	.0	.0	3.0	.0	.0	9.1	.0	.0	12.1	.0	.0	.0	78.8
W	.0	.0	.0	.0	10.5	.0	.0	10.5	.0	.0	7.9	.0	.0	.0	81.6
NW	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	22.5	.0	.0	10.0	65.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
TOT PCT	6.1	1.0	.0	.0	4.1	.0	.0	11.2	3.1	.0	12.2	.0	1.0	1.0	71.4
TOT OBS:	98														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.6	.0	.0	.0	7.1	.0	.0	10.7	3.6	.0	10.7	.0	3.6	.0	71.4
06009	9.7	.0	.0	.0	6.5	.0	.0	16.1	3.2	.0	12.9	.0	.0	6.5	61.3
12015	3.8	.0	.0	.0	3.8	.0	.0	7.7	.0	.0	15.4	.0	.0	.0	76.9
18021	5.0	5.0	.0	.0	.0	.0	.0	10.0	5.0	.0	5.0	.0	.0	.0	80.0
TOT PCT	5.7	1.0	.0	.0	4.8	.0	.0	11.4	2.9	.0	11.4	.0	1.0	1.9	71.4
TOT OBS:	105														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47							00	03	06	09	12	15	18	21
N	.0	3.4	2.1	.0	.0	.0	.0		5.5	10.0		4.2	.0	17.6	.0	5.0	.0	8.3	.0
NE	1.1	1.8	2.1	1.6	.0	.0	.0		6.6	12.4		12.5	.0	7.4	.0	8.3	.0	11.1	5.0
E	1.6	2.6	1.8	1.6	.0	.0	.0		7.6	11.8		15.3	.0	8.8	.0	6.7	5.6	.0	15.0
SE	2.1	3.2	4.9	9.7	1.1	.0	.0		20.5	20.2		22.2	21.4	30.9	15.0	20.0	11.1	36.1	.0
S	5.8	7.9	8.8	1.8	.8	.0	.0		25.3	11.8		5.6	42.9	5.9	40.0	30.0	30.0	33.3	30.0
SW	.5	2.1	4.7	2.1	.3	.0	.0		9.7	16.3		5.6	7.1	.0	15.0	23.3	11.1	8.3	10.0
W	2.6	3.4	1.8	2.1	.0	.0	.0		10.0	11.7		19.4	.0	11.8	10.0	.0	5.6	.0	25.0
NW	2.1	5.0	1.3	1.1	.0	.0	.0		9.5	8.8		9.7	.0	11.8	20.0	.0	16.7	2.8	15.0
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3								5.3	.0		5.6	28.6	5.9	.0	6.7	.0	.0	.0
TOT OBS	20	28	26	19	2	0	95		13.0			18	7	17	10	15	9	9	10
TOT PCT	21.1	29.5	27.4	20.0	2.1	.0	100.0					100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40								00	06	12	18	21
N	3.4	.0	2.1	.0	.0	.0	.0		5.5	10.0		3.0	11.1	3.1	3.9	
NE	1.3	3.7	1.6	.0	.0	.0	.0		6.6	12.4		9.0	4.6	5.2	7.9	
E	1.6	4.5	1.6	.0	.0	.0	.0		7.6	11.8		11.0	5.6	6.3	7.9	
SE	3.2	5.5	5.3	6.6	.0	.0	.0		20.5	20.2		22.0	25.0	16.7	17.1	
S	8.4	8.2	7.1	1.6	.0	.0	.0		25.3	11.8		16.0	18.5	37.5	31.6	
SW	1.1	3.9	3.4	1.3	.0	.0	.0		9.7	16.3		6.0	5.6	18.8	9.2	
W	3.2	3.7	2.1	1.1	.0	.0	.0		10.0	11.7		14.0	11.1	2.1	13.2	
NW	6.3	1.1	1.1	1.1	.0	.0	.0		9.5	8.8		7.0	14.8	6.3	9.2	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	5.3								5.3	.0		12.0	3.7	4.2	.0	
TOT OBS	32	29	23	11	0	95			13.0			25	27	24	19	
TOT PCT	33.7	30.5	24.2	11.6	.0	100.0						100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	12.0	8.0	20.0	32.0	28.0	.0	.0	.0	13.7	100.0	25
06009	3.7	22.2	37.0	22.2	14.8	.0	.0	.0	11.1	100.0	27
12015	4.2	12.5	33.3	29.2	16.7	4.2	.0	.0	13.4	100.0	24
18021	.0	21.1	26.3	26.3	21.1	5.3	.0	.0	14.4	100.0	19
TOT	5	15	28	26	19	2	0	0	13.0		95
PCT	5.3	15.8	29.5	27.4	20.0	2.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.0	.0	1.8	7.7		7.8
NE	1.8	.0	1.8	5.0		6.3
E	1.8	.0	1.8	7.7		6.5
SE	1.8	.0	3.6	16.8		6.9
S	5.5	.0	3.2	10.0		5.4
SW	1.8	.0	4.1	.9		5.2
W	1.4	.0	.0	6.8		6.6
NW	4.1	.0	3.6	3.2		4.3
VAR	.0	.0	.0	.0		.0
CALM	3.6	.0	.0	.0		.5
TOT OBS	12	0	11	32	55	6.0
TOT PCT	21.8	.0	20.0	58.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.2	.0	.0	1.4	3.2	1.8	.0	.0	.0	.0	.0	
NE	.9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	1.8	
E	3.2	.0	.0	.0	1.4	5.0	.0	.0	.0	.0	1.8	
SE	3.6	.0	1.8	.0	2.3	10.9	.0	.0	.0	.0	3.6	
S	3.2	1.8	1.8	.0	.0	1.8	1.4	.0	.0	.0	8.6	
SW	.5	.0	.0	.0	3.6	.0	.5	.0	.0	.0	2.3	
W	.0	.0	.0	1.8	.0	5.0	.0	.0	.0	.0	1.4	
NW	1.8	.0	.0	.5	2.3	.5	1.8	.0	.0	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	
TOT OBS	9	1	2	2	7	17	2	0	0	0	15	55
TOT PCT	16.4	1.8	3.6	3.6	12.7	30.9	3.6	.0	.0	.0	27.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0	
* OR >4500	.0	.0	.0	1.7	1.7	1.7	1.7	1.7	
* OR >3000	.0	.0	.0	1.7	1.7	1.7	1.7	1.7	
* OR >2500	1.7	3.3	3.3	5.0	5.0	5.0	5.0	5.0	
* OR >2000	13.3	23.3	31.7	35.0	36.7	36.7	36.7	36.7	
* OR >1500	16.7	33.3	41.7	46.7	48.3	48.3	48.3	48.3	
* OR >1000	18.3	35.0	43.3	50.0	51.7	51.7	51.7	51.7	
* OR >500	18.3	35.0	45.0	51.7	55.0	55.0	55.0	55.0	
* OR >150	20.0	36.7	46.7	53.3	56.7	56.7	56.7	56.7	
* OR >0	20.0	36.7	48.3	58.3	61.7	65.0	71.7	71.7	
TOTAL	12	22	29	35	37	39	43	43	

TOTAL NUMBER OF OBS: 60

PCT FREQ NM <5/8: 28.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
19.0	4.8	1.6	.0	1.6	6.3	7.9	6.3	38.1	14.3	63

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.0	.3	.8	.0	.0	.0	.0	.0	.0	.0	2.0	
	NO PCP	.8	1.3	1.0	2.0	1.0	.0	1.0	.0	1.0	.0	7.1	
	TOT %	1.8	.5	1.8	2.0	1.0	.0	.0	1.0	.0	1.0	9.2	
1/2<1	PCP	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	2.0	
1<2	PCP	.8	.0	.0	1.0	.8	.3	1.0	.3	.0	.0	4.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	
	TOT %	.8	.0	.0	1.0	.8	.3	1.0	2.3	.0	.0	6.1	
2<5	PCP	.0	.3	.8	1.0	.5	.5	.0	.0	.0	.0	3.1	
	NO PCP	.0	1.3	.8	3.1	2.0	.0	1.8	.3	.0	.0	9.2	
	TOT %	.0	1.5	1.5	4.1	2.6	.5	1.8	.3	.0	.0	12.2	
5<10	PCP	.0	.0	.8	.3	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	1.0	1.0	2.3	3.1	2.8	.0	2.0	.0	.0	12.2	
	TOT %	.0	1.0	1.8	2.6	3.1	2.8	.0	2.0	.0	.0	13.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.8	3.6	4.1	8.2	19.1	4.8	6.9	4.8	.0	4.1	57.1	
	TOT %	1.8	3.6	4.1	8.2	19.1	4.8	6.9	4.8	.0	4.1	57.1	
TOT OBS													98
TOT PCT		4.3	6.6	9.2	19.9	26.5	8.4	9.7	10.2	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	2.2	
	4-10	.8	.3	1.1	.0	.0	.0	.0	.0	.0	.0	2.2	
	11-21	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	1.9	.3	1.1	2.2	.0	.0	.0	1.1	.0	1.1	7.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
	4-10	.8	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2.2	
	22+	.0	.0	.0	1.1	.8	.3	.0	.0	.0	.0	2.2	
	TOT %	.8	.0	.0	1.1	.8	.3	1.1	2.4	.0	.0	6.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.8	1.3	.0	.0	2.2	
	11-21	.0	1.1	.0	.0	1.6	.5	.0	.0	.0	.0	3.2	
	22+	.0	.5	1.6	4.3	.0	.0	1.1	.0	.0	.0	7.5	
	TOT %	.0	1.6	1.6	4.3	1.6	.5	1.9	1.3	.0	.0	12.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	1.6	.0	1.1	.0	.0	3.2	
	11-21	.0	.0	1.9	2.4	1.9	.3	.0	.0	.0	.0	6.5	
	22+	.0	1.1	.0	.3	.8	1.1	.0	1.1	.0	.0	4.3	
	TOT %	.0	1.1	1.9	2.7	3.2	3.0	.0	2.2	.0	.0	14.0	
10+	0-3	.0	1.1	1.6	2.2	5.9	.5	2.7	.0	.0	4.3	18.3	
	4-10	1.9	1.6	1.6	3.2	7.5	.5	2.7	2.4	.0	.0	21.5	
	11-21	.0	1.1	.0	2.2	5.6	4.0	.8	.3	.0	.0	14.0	
	22+	.0	.0	.0	1.1	1.1	.0	1.1	.0	.0	.0	3.2	
	TOT %	1.9	3.8	3.2	8.6	20.2	5.1	7.3	2.7	.0	4.3	57.0	
TOT OBS													93
TOT PCT		4.6	6.7	7.8	21.0	25.8	8.9	10.2	9.7	.0	5.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 259	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	9.5	.0	4.8	4.8	14.3	47.6	.0	.0	.0	.0	81.0	19.0	21
06009	17.6	5.9	.0	5.9	11.8	35.3	5.9	.0	.0	.0	82.4	17.6	17
12015	23.5	.0	5.9	.0	5.9	5.9	5.9	.0	5.9	.0	52.9	47.1	17
18021	.0	.0	.0	.0	33.3	33.3	.0	.0	.0	.0	66.7	33.3	6
TOT	9	1	2	2	8	19	2	0	1	0	44	17	61
PCT	14.8	1.6	3.3	3.3	13.1	31.1	3.3	.0	1.6	.0	72.1	27.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.6	7.1	.0	14.3	17.9	57.1	28
06009	12.9	.0	12.9	6.5	16.1	51.6	31
12015	10.7	.0	10.7	17.9	10.7	50.0	28
18021	5.0	.0	5.0	15.0	15.0	60.0	20
TOT	9	2	8	14	16	58	107
PCT	8.4	1.9	7.5	13.1	15.0	54.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	9.5	19.0	38.1	42.9	19.0	21
06009	18.8	25.0	43.8	37.5	18.8	16
12015	23.5	29.4	52.9	11.8	35.3	17
18021	.0	.0	16.7	50.0	33.3	6
TOT	9	13	25	20	15	60
PCT	15.0	21.7	41.7	33.3	25.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	10.0	.0	.0	.0	10.0	.0	2	20.0
50/54	.0	.0	.0	.0	.0	.0	10.0	.0	1	10.0
45/49	.0	.0	.0	.0	.0	10.0	10.0	.0	2	20.0
40/44	.0	.0	.0	10.0	10.0	10.0	10.0	.0	4	40.0
30/34	.0	.0	.0	.0	.0	.0	.0	10.0	1	10.0
TOTAL	0	0	1	1	1	2	4	1	10	100.0
PCT	.0	.0	10.0	10.0	10.0	20.0	40.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	10.0	.0	.0	10.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	5.0	5.0	.0	.0	.0	.0
.0	.0	.0	5.0	15.0	.0	.0	.0	.0	.0
.0	.0	.0	10.0	17.5	7.5	5.0	.0	.0	.0
.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0
.0	10.0	.0	15.0	47.5	22.5	5.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	55	54	54	36	32	22	22	38.3	24
06009	48	47	45	35	30	30	30	36.4	30
12015	47	46	43	34	29	18	18	34.6	27
18021	57	56	56	34	26	26	26	36.8	19
TOT	57	55	48	35	29	18	18	36.4	100

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	50.0	.0	50.0	.0	.0	.0	.0	57	2
06009	.0	50.0	50.0	.0	.0	.0	.0	.0	62	2
12015	.0	.0	.0	33.3	33.3	33.3	.0	.0	87	3
18021	.0	.0	.0	.0	100.0	.0	.0	.0	85	3
TOT	0	2	1	2	4	1	75	10		

APRIL

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1932-1974AREA 0020 SAKHALIN ISLAND SE
46.7N 145.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	23 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.0	1.4	2.7	.0	.0	.0	3	1.4	2.7
6	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	2	.0	2.7
5	.0	.0	.0	.0	.0	.0	6.8	1.4	.0	.0	1.4	7	.0	9.5
4	.0	.0	.0	.0	5.4	4.1	2.7	1.4	.0	.0	.0	10	1.4	12.2
3	.0	.0	.0	.0	2.7	1.4	.0	.0	.0	.0	.0	3	.0	4.1
2	.0	.0	.0	.0	4.1	4.1	.0	1.4	.0	1.4	.0	8	.0	10.8
1	.0	.0	.0	.0	1.4	2.7	.0	.0	.0	1.4	.0	4	1.4	4.1
0	.0	.0	.0	5.4	10.8	.0	.0	.0	.0	.0	.0	12	1.4	14.9
-1	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1	.0	1.4
-2	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0	8	1.4	9.5
-3	.0	.0	.0	1.4	4.1	.0	.0	.0	.0	.0	.0	4	.0	5.4
-4	.0	.0	.0	6.8	.0	.0	1.4	.0	.0	.0	.0	6	.0	8.1
-5	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1	.0	1.4
-7/-3	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.4
-9/-10	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	2	.0	2.7
-14/-16	1.4	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	2	1.4	1.4
TOTAL	1	1	1	15	26	9	12	5	0	3	1	74	6	68
PCT	1.4	1.4	1.4	20.3	35.1	12.2	16.2	6.8	.0	4.1	1.4	100.0	8.1	91.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.7	.0	.0	.0	.0	5.7	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	4.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.6	.0	.0	5.1
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.7	2.3	.0	.0	.0	8.0	2.3	2.8	4.5	3.4	.0	.0	13.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	5.1	.0	.0	.0	5.1
3-4	.0	.0	2.3	1.7	.0	.0	4.0	.0	2.3	2.3	.0	.0	.0	4.5
5-6	.0	.0	.0	1.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	4.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	.0	.0	7.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.0	3.4	.0	.0	7.4	.0	2.3	9.7	18.8	.0	.0	30.7

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	2.3	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	4.5	.0	.0	4.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.6	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	.0	2.3	1.7	1.7	.0	8.0	.0	.0	2.3	4.5	.6	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	2.3	
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.6	.0	.0	.0	.6	
5-6	.0	1.7	.0	4.5	.0	.0	6.3	.0	.6	.0	.0	.0	.0	.6	
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	4.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.7	4.0	4.5	.0	.0	10.2	.0	3.4	2.8	2.3	.0	.0	6.5	93.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	6.8	.0	.0	.0	.0	13.6	
1-2	4.5	4.5	6.8	.0	.0	.0	15.9	
3-4	.0	2.3	6.8	2.3	.0	.0	11.4	
5-6	.0	2.3	6.8	6.8	.0	.0	15.9	
7	.0	.0	9.1	6.8	.0	.0	15.9	
8-9	.0	.0	.0	6.8	.0	.0	6.8	
10-11	.0	.0	2.3	6.8	2.3	.0	11.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	9.1	.0	.0	9.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.4	15.9	31.8	38.6	2.3	.0	100.0	44

PERIOD: (OVER-ALL) 1956-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	7.0	5.3	8.8	5.3	1.8	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
6-7	.0	.0	3.5	1.8	3.5	3.5	1.8	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
8-9	.0	.0	1.8	3.5	5.3	8.8	3.5	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
10-11	.0	1.8	.0	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
12-13	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.8	3.5	3.5	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
TOTAL	5	7	8	9	9	8	6	0	5	0	0	0	0	0	0	0	0	0	0	57	6
PCT	8.8	12.3	14.0	15.8	15.8	14.0	10.5	.0	8.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1908-1974AREA 0020 SAKHALIN ISLAND SE
48.7N 149.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.8	.0	3.2	.0	5.1	.0	.0	11.1	3.7	.0	12.0	5.1	.0	.0	68.2	
NE	12.3	.0	4.7	.0	5.4	.0	.0	20.9	2.9	.0	28.2	.4	1.4	.0	46.2	
E	8.8	.0	6.5	.0	6.9	2.5	.0	25.2	1.9	.0	35.2	.0	.0	.0	37.7	
SE	7.2	.0	.0	.0	7.2	.0	.0	12.4	.9	.0	30.4	.0	2.1	.0	34.6	
S	4.3	.0	3.6	.0	.9	.0	.0	9.8	.0	.0	24.2	.9	1.6	.0	64.6	
SW	5.7	.0	.0	.0	1.8	.0	.0	7.5	1.8	.0	27.8	.0	.4	.0	62.6	
W	2.6	.0	2.6	.0	.0	.0	.0	5.1	.0	.0	19.9	.0	2.6	.0	72.4	
NW	2.3	.0	2.9	.0	2.9	.0	.0	8.0	2.3	.0	16.0	.0	2.3	.0	71.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	35.0	5.0	.0	.0	50.0	
TOT PCT	6.0	.0	2.9	.0	3.3	.2	.0	12.0	1.5	.0	24.7	1.0	1.2	.0	59.5	
TOT OBS:	482															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.4	.0	2.7	.0	4.7	.7	.0	14.8	.7	.0	26.2	.0	1.3	.0	57.0
06009	2.5	.0	.8	.0	3.3	.8	.0	6.7	1.7	.0	19.2	1.7	1.7	.0	69.2
12015	5.7	.0	3.5	.0	1.4	.7	.0	11.3	2.1	.0	20.6	.0	.7	.0	64.5
18021	7.1	.0	4.1	.0	6.1	.0	.0	17.3	1.0	.0	33.7	3.1	1.0	.0	43.9
TOT PCT TOT OBS:	5.7 508	.0	2.8	.0	3.7	.6	.0	12.4	1.4	.0	24.4	1.0	1.2	.2	59.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.6	3.5	4.7	.7	.2	.0		11.6	11.2		11.6	11.0	14.9	13.3	5.9	5.0	17.5	16.7
NE	3.1	6.0	4.3	1.3	.0	.0		14.9	10.6		6.2	34.0	7.6	18.4	10.8	18.6	9.0	30.2
E	.9	2.9	2.8	1.4	.0	.0		8.0	12.6		5.1	6.0	5.4	6.1	9.7	5.0	13.0	15.6
SE	2.2	5.0	2.1	1.1	.2	.0		10.6	10.0		10.2	14.0	10.1	10.2	11.6	15.0	8.5	15.2
S	2.6	10.8	8.0	1.5	.4	.0		23.3	11.0		30.9	18.0	22.1	25.5	23.9	18.8	23.5	15.6
SW	1.8	5.0	3.6	.8	.2	.0		11.3	10.6		18.9	7.0	10.1	13.3	10.2	11.3	10.0	8.3
W	1.8	2.9	2.6	.4	.0	.0		7.7	9.8		8.3	3.0	12.3	5.1	6.5	17.5	5.5	4.2
NW	.6	2.3	4.3	1.2	.2	.0		8.8	13.8		8.6	3.0	13.0	8.2	12.9	6.3	11.0	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0		2.2	4.0	4.3	.0	8.6	2.5	2.0	2.1
TOT OBS	95	190	160	41	6	0	492		10.7		93	50	69	49	93	40	50	48
TOT PCT	19.3	38.6	32.5	8.3	1.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	06	12	18
N	4.6	4.4	2.2	.2	.2		11.6	11.2		11.4	14.2	5.6	17.1
NE	5.9	4.7	4.1	.3	.0		14.9	10.6		13.9	12.1	13.2	19.4
E	2.3	3.2	2.2	.2	.0		8.0	12.6		5.4	5.7	8.3	14.3
SE	4.6	4.3	1.3	.4	.0		10.6	10.0		11.5	10.2	12.6	6.9
S	9.7	8.0	4.7	.7	.2		23.3	11.0		26.4	25.5	22.4	19.6
SW	4.9	3.7	2.4	.3	.0		11.3	10.6		13.3	11.4	10.3	9.2
W	3.3	3.0	1.3	.2	.0		7.7	9.8		6.3	9.3	9.8	4.8
NW	1.5	4.3	2.6	.4	.0		8.8	13.8		6.6	11.0	10.9	6.6
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	3.7						3.7	.0		2.8	2.5	6.8	2.0
TOT OBS	200	175	102	13	2	492		10.7		143	118	133	98
TOT PCT	40.7	35.6	20.7	2.6	.4		100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.8	16.1	44.1	28.7	7.7	.7	.0	10.3	100.0	143
0600	2.5	12.7	39.8	33.1	8.5	3.4	.0	11.4	100.0	118
1200	6.8	17.3	32.3	34.6	9.0	.0	.0	10.6	100.0	133
1800	2.0	16.3	37.8	34.7	8.2	1.0	.0	10.5	100.0	98
TOT	18	77	190	160	41	6	0	10.7		492
PCT	3.7	15.7	38.6	32.5	8.3	1.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.8	.7	1.9	8.7		7.0
NE	.5	.1	.3	7.0		7.5
E	1.1	.0	.8	6.1		6.8
SE	1.9	1.6	.4	5.8		5.7
S	6.1	2.7	3.6	12.5		5.5
SW	1.6	1.4	3.1	7.7		6.2
W	1.4	.7	1.7	5.2		6.2
NW	1.6	.5	1.7	7.1		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	1.2	1.2		4.6
TOT OBS	43	20	38	159	260	6.2
TOT PCT	16.5	7.7	14.6	61.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY MGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.6	.4	.6	2.1	2.5	1.7	.4	.0	.0	.3	2.4	
NE	2.0	.4	.0	.1	1.7	1.3	.0	.8	.4	.1	1.1	
E	2.3	.5	.0	.0	2.6	1.6	.0	.0	.0	.0	1.1	
SE	3.6	.1	.0	.4	1.0	1.1	.1	.0	.0	.0	3.6	
S	3.2	.0	.8	.8	2.8	4.7	1.4	.3	.4	.7	9.8	
SW	4.7	.0	.0	.0	.5	2.2	1.9	.1	.4	.5	3.6	
W	1.4	.0	.4	.8	1.8	1.0	1.2	.0	.0	.0	2.5	
NW	1.9	.0	.2	.9	3.7	1.3	.4	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.4	.0	.0	.4	.8	.0	.0	.4	.0	1.9	
TOT OBS	54	4	5	13	44	41	14	3	4	4	74	260
TOT PCT	20.8	1.5	1.9	5.0	16.9	15.8	5.4	1.2	1.5	1.5	28.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>5000	3.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1
>3500	6.6	10.3	10.3	10.3	10.3	10.3	10.3	10.3
>2000	14.3	23.8	24.9	25.6	25.6	26.0	26.4	26.4
>1000	19.4	34.8	39.2	40.7	42.1	42.9	43.6	43.6
>600	20.1	36.6	42.9	44.3	46.5	47.3	48.0	48.0
>300	20.9	38.5	45.4	46.9	49.5	50.2	50.9	50.9
>150	21.6	39.9	46.9	48.4	50.9	51.6	52.4	52.4
>0	22.3	41.8	51.3	54.9	58.6	64.5	72.2	72.5
TOTAL	61	114	140	150	160	176	197	198

TOTAL NUMBER OF OBS: 273

PCT FREQ NH <5/8: 27.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	12.1	1.7	5.7	4.0	3.7	2.4	4.4	6.1	40.1	19.9	297

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46.7N 145.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.3	.2	.2	.3	.0	.0	.0	.0	1.3	
	NO PCP	.4	1.3	1.2	1.4	2.6	2.4	.8	1.3	.0	.6	11.9	
	TOT %	.4	1.6	1.5	1.6	2.8	2.7	.8	1.3	.0	.6	13.2	
1/2<1	PCP	.4	.4	.0	.2	.4	.0	.0	.1	.0	.0	1.5	
	NO PCP	.0	.7	.8	.3	.3	.4	.2	.2	.0	.2	3.1	
	TOT %	.4	1.1	.8	.5	.7	.4	.2	.3	.0	.2	4.6	
1<2	PCP	.2	.8	.3	.5	.2	.4	.0	.4	.0	.0	2.9	
	NO PCP	.9	1.2	.2	.6	.3	.2	.0	.0	.0	.0	3.3	
	TOT %	1.1	2.0	.5	1.1	.5	.6	.0	.4	.0	.0	6.3	
2<5	PCP	.5	.8	1.3	.3	.8	.0	.2	.0	.0	.2	4.2	
	NO PCP	1.1	1.4	.6	.4	.6	.4	1.0	.0	.0	.2	6.3	
	TOT %	1.7	2.2	1.9	.7	1.5	.4	.6	1.0	.0	.4	10.4	
5<10	PCP	.2	.4	.4	.1	.4	.2	.0	.3	.0	.2	2.1	
	NO PCP	2.0	2.9	1.8	2.8	3.0	1.0	1.9	2.2	.0	.4	20.3	
	TOT %	2.2	3.3	2.2	2.9	3.4	1.3	1.9	2.5	.0	.6	22.3	
10+	PCP	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.4	
	NO PCP	5.6	4.0	1.5	3.1	12.1	6.4	4.4	3.7	.0	2.1	42.8	
	TOT %	5.6	4.2	1.5	3.1	12.1	6.4	4.6	3.7	.0	2.1	43.2	
TOT OBS													479
TOT PCT		11.3	14.5	8.4	9.9	23.0	11.8	8.1	9.1	.0	4.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.4	.0	.3	.3	.6	.2	.0	.0	.4	2.3	
	4-10	.1	.3	.6	.6	1.3	.6	.4	.6	.0		4.5	
	11-21	.3	.9	.4	.3	.7	.8	.2	.4	.0		3.9	
	22+	.0	.0	.6	.2	.3	.1	.0	.0	.0		1.2	
	TOT %	.4	1.7	1.6	1.3	2.6	2.2	.8	1.0	.0	.4	12.0	
1/2<1	0-3	.0	.1	.3	.0	.0	.2	.0	.2	.0	.2	1.0	
	4-10	.0	.7	.3	.3	.3	.2	.2	.0	.0		2.1	
	11-21	.2	.3	.2	.0	.2	.0	.0	.1	.0		.8	
	22+	.2	.0	.0	.2	.0	.0	.0	.0	.0		.4	
	TOT %	.4	1.1	.8	.5	.5	.4	.2	.3	.0	.2	4.3	
1<2	0-3	.4	.4	.0	.2	.0	.2	.0	.2	.0	.0	1.4	
	4-10	.5	.9	.3	.6	.6	.3	.0	.2	.0		3.5	
	11-21	.4	.5	.2	.1	.2	.0	.0	.2	.0		1.4	
	22+	.2	.6	.0	.4	.0	.2	.0	.0	.0		1.4	
	TOT %	1.5	2.4	.5	1.3	.8	.7	.0	.6	.0	.0	7.9	
2<5	0-3	.1	.7	.0	.2	.1	.1	.4	.0	.0	.4	2.1	
	4-10	.8	1.3	.2	.9	1.0	.7	.2	.2	.0		5.4	
	11-21	1.2	.4	.9	.1	.4	.2	.2	.4	.0		3.7	
	22+	.0	.4	.4	.2	.4	.0	.0	.2	.0		1.7	
	TOT %	2.1	2.8	1.5	1.4	2.0	1.0	.8	.8	.0	.4	12.8	
5<10	0-3	.0	.3	.1	.9	.8	.0	.4	.0	.0	.6	3.1	
	4-10	.5	1.1	.6	1.2	2.7	.4	.6	.6	.0		7.6	
	11-21	1.5	1.4	1.1	.6	1.7	.4	.9	1.4	.0		8.7	
	22+	.2	.3	.2	.2	.4	.2	.2	.4	.0		2.1	
	TOT %	2.1	3.2	2.0	2.8	5.6	1.0	1.7	2.5	.0	.6	21.5	
10+	0-3	1.9	1.2	.5	.6	1.5	.7	.8	.2	.0	2.1	9.5	
	4-10	1.7	1.5	.7	1.2	4.8	2.8	1.5	.9	.0		15.3	
	11-21	1.2	1.1	.2	1.2	5.0	2.1	1.6	1.6	.0		14.0	
	22+	.4	.1	.0	.0	.8	.5	.2	.8	.0		2.7	
	TOT %	5.2	3.9	1.4	3.1	12.0	6.1	4.2	3.6	.0	2.1	41.5	
TOT OBS													484
TOT PCT		11.6	15.0	7.8	10.5	23.5	11.5	7.7	8.8	.0	3.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	19.8	2.1	4.2	6.3	16.7	16.7	7.3	1.0	1.0	2.1	77.1	22.9	96
06009	13.6	3.0	4.5	1.5	25.8	12.1	4.5	.0	1.5	1.5	68.2	31.8	66
12015	21.0	.0	1.2	2.5	12.3	18.5	4.9	4.9	2.5	.0	67.9	32.1	81
18021	33.3	.0	.0	9.5	11.9	11.9	.0	2.4	.0	2.4	71.4	28.6	42
TOT	59	4	8	13	48	44	14	6	4	4	204	81	285
PCT	20.7	1.4	2.8	4.6	16.8	15.4	4.9	2.1	1.4	1.4	71.6	28.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	10.4	5.8	9.1	9.7	24.7	40.3	154
06009	12.5	4.7	6.3	7.8	16.4	52.3	128
12015	11.9	3.3	4.6	15.2	15.2	39.7	151
18021	19.2	4.8	9.6	20.2	19.2	26.9	104
TOT	70	25	39	69	117	217	537
PCT	13.0	4.7	7.3	12.8	21.8	40.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	19.8	30.8	41.8	37.4	20.9	91
06009	13.6	24.2	31.8	36.4	31.8	66
12015	22.1	27.3	33.8	37.7	28.6	77
18021	28.2	35.9	59.0	20.5	20.5	39
TOT	55	79	108	95	70	273
PCT	20.1	28.9	39.6	34.8	25.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	5.3	.0	1	5.3
45/49	.0	.0	.0	.0	.0	.0	5.3	.0	1	5.3
40/44	.0	.0	.0	.0	5.3	.0	.0	10.5	3	15.8
35/39	.0	.0	.0	.0	.0	.0	10.5	31.6	8	42.1
30/34	.0	.0	.0	.0	.0	.0	.0	31.6	6	31.6
TOTAL	0	0	0	0	1	0	4	14	19	100.0
PCT	.0	.0	.0	.0	5.3	.0	21.1	73.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0
5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.3	5.3	5.3	.0	.0	.0	.0	.0	.0	.0	.0
7.9	7.9	10.5	.0	.0	5.3	5.3	5.3	.0	.0	.0
18.4	.0	.0	5.3	.0	.0	.0	7.9	.0	.0	.0
36.8	13.2	15.8	5.3	5.3	5.3	5.3	13.2	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	61	54	40	32	28	27	40.9	153
06009	59	57	48	39	32	29	25	39.7	124
12015	54	52	46	37	30	28	27	38.3	142
18021	57	54	49	37	30	23	23	37.9	106
TOT	63	57	50	39	31	28	23	39.3	525

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	14.3	.0	28.6	57.1	87	7
06009	.0	.0	.0	.0	100.0	.0	84	1
12015	.0	.0	.0	.0	16.7	83.3	94	6
18021	.0	.0	.0	.0	.0	100.0	99	5
TOT	0	0	1	0	4	14	92	19

MAY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1908-1974

TABLE 17

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	WD FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2	.0	.5
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.2	.0
17/19	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	3	.2	.5
14/16	.0	.0	.0	.0	.0	.0	.7	.4	.7	.0	8	.5	1.3
11/13	.0	.0	.0	.0	.5	1.4	.7	.7	.0	.0	14	.7	2.5
9/10	.0	.0	.0	.2	.7	1.6	1.6	.2	.0	.0	19	.0	4.3
7/8	.0	.0	.0	.7	1.6	1.6	.7	.2	.0	.0	21	1.6	3.2
6	.0	.0	.2	.5	.5	.7	.2	.0	.0	.0	9	.0	2.1
5	.0	.0	.5	1.8	3.0	3.2	.0	.0	.0	.0	37	3.0	5.5
4	.0	.0	1.8	3.6	2.1	2.1	.5	.0	.0	.0	44	2.7	7.3
3	.0	.0	.7	3.4	.7	.0	.0	.0	.0	.0	21	.9	3.9
2	.0	.0	3.9	5.0	2.1	2.3	.2	.0	.0	.0	59	4.1	9.3
1	.0	.2	1.4	2.1	.2	.2	.0	.0	.0	.0	18	.7	4.1
0	.0	1.8	4.1	4.6	2.3	1.4	.0	.0	.0	.0	62	5.5	8.7
-1	.0	.5	.9	.7	.0	.0	.0	.0	.0	.0	13	.5	2.5
-2	.2	2.1	3.2	2.3	.5	.7	.0	.0	.0	.0	39	2.3	6.6
-3	.0	.2	.5	.7	.0	.5	.0	.0	.0	.0	8	.2	1.6
-4	.2	.7	3.4	1.1	.7	.0	.0	.0	.0	.0	27	1.1	5.1
-5	.2	1.1	1.4	.9	.2	.2	.0	.0	.0	.0	18	1.4	2.7
-6	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	3	.2	.5
-7/-8	.5	.5	.5	.2	.0	.0	.0	.0	.0	.0	7	.2	1.4
-9/-10	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.7
-11/-13	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.5
-14/-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	8	34	125	69	4.8	1.8	1.1	.5	439	114	325		
PCT	1.8	7.7	22.3	28.5	15.7	15.7	4.8	1.8	1.1	.5	100.0	26.0	74.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.4	.0	.0	.0	.0	2.0	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.6	2.0	.0	.0	.0	2.6	.0	1.0	2.0	.0	.0	.0	3.0
3-4	.0	.3	3.1	.0	.0	.0	3.4	.0	.5	2.0	.0	.0	.0	2.5
5-6	.0	.3	2.5	.7	.0	.0	3.6	.0	.1	1.1	.1	.0	.0	1.3
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.7	8.8	1.1	.0	.0	12.7	.1	2.0	6.1	.6	.0	.0	8.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.5	.7	.4	.0	.0	.0	1.7
1-2	.0	.0	1.4	.0	.0	.0	1.4	.0	1.8	1.6	.0	.0	.0	3.4
3-4	.0	.0	1.1	.4	.0	.0	1.5	.0	.8	1.5	.0	.0	.0	2.3
5-6	.0	.0	1.0	.4	.0	.0	2.0	.0	.1	.2	.8	.0	.0	1.2
7	.0	.4	.7	.4	.0	.0	1.6	.0	.0	.5	.0	.4	.0	1.0
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	1.0	.0	.0	1.0
10-11	.0	.0	.3	.4	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	5.1	2.4	.0	.0	8.3	.5	3.5	4.3	1.8	.4	.0	10.6

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.1	.4	.0	.0	.0	3.6	.5	1.5	.4	.0	.0	.0	2.4
1-2	.0	2.3	3.8	.0	.0	.0	6.1	.4	1.8	1.9	.0	.0	.0	4.1
3-4	.0	.4	4.4	.3	.0	.0	5.2	.0	.4	2.8	.5	.0	.0	3.7
5-6	.0	.3	2.0	.0	.0	.0	2.3	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	1.1	.4	.0	.0	1.5	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.6	2.0	.0	.0	2.6	.0	.0	.3	.5	.4	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.4	.0	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.2	12.8	2.8	.8	.0	22.7	1.0	3.7	6.4	1.5	.4	.0	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	.4	.0	.0	.0	.0	.8	
1-2	.8	.3	.3	.0	.0	.0	1.5	.0	1.5	1.4	.0	.0	.0	2.9	
3-4	.0	.8	1.8	.0	.0	.0	2.6	.0	.8	1.6	.4	.0	.0	2.9	
5-6	.0	.0	1.2	.4	.0	.0	1.6	.0	.4	1.2	.8	.0	.0	2.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.8	
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	2.9	4.4	.8	.0	.0	9.0	.0	3.6	5.0	1.7	.4	.0	10.7	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	8.1	1.7	.0	.0	.0	17.4	
1-2	1.3	9.3	14.4	.0	.0	.0	25.0	
3-4	.0	4.2	18.2	1.7	.0	.0	24.2	
5-6	.0	1.3	9.7	3.8	.0	.0	14.8	
7	.0	.4	3.8	1.7	.4	.0	6.4	
8-9	.0	.0	2.5	4.2	.4	.0	7.2	
10-11	.0	.0	1.3	.8	.0	.0	2.1	
12	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.8	.0	.4	.0	1.3	
17-19	.0	.0	.4	.0	.4	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.9	23.3	53.0	12.7	2.1	.0	100.0	236

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	11.5	15.0	8.7	1.0	1.7	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	4
6-7	.0	1.4	3.8	3.5	3.8	4.2	1.0	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	6
8-9	.0	.0	.0	.7	1.0	1.4	.3	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
10-11	.0	.3	.3	1.0	.7	1.4	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
12-13	.0	.0	2.8	1.7	.7	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
>13	.0	.0	.0	.0	.0	.7	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	4.2	3.8	5.6	1.7	2.4	1.4	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	4
TOTAL	18	49	79	50	28	31	13	5	11	2	0	0	0	0	0	0	0	0	0	286	5
PCT	6.3	17.1	27.6	17.5	9.8	10.8	4.5	1.7	3.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1933-1974

JUNE

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	6.2	.0	1.6	.0	.0	.0	.0	7.8	.0	.0	43.8	.0	1.6	.0	46.9
NE	8.3	.0	2.7	.0	.0	.0	.0	11.0	2.7	.0	51.5	.0	2.7	.0	32.2
E	11.5	.0	2.4	.0	.0	.0	.0	13.9	1.2	.0	35.2	2.4	.0	.0	47.3
SE	5.9	.0	.2	.0	.0	.0	.0	6.1	.8	.0	44.0	.0	.0	.8	48.3
S	9.2	.0	1.7	.0	.0	.0	.0	10.9	.4	.0	34.5	.0	1.3	.4	52.5
SW	3.3	.0	.2	.0	.0	.0	.0	3.5	1.1	.0	33.7	.0	.2	.2	61.3
W	3.8	.0	3.8	.0	.0	.0	.0	7.7	1.9	.0	17.2	1.9	.0	.0	71.3
NW	4.4	.0	2.2	.0	.0	.0	.0	6.6	2.2	.0	25.1	.0	.0	.0	66.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4	.0	.0	.0	.0	.0	.0	6.4	4.3	.0	51.1	.0	.0	.0	38.3
TOT PCT	7.0	.0	1.5	.0	.0	.0	.0	8.5	1.2	.0	37.5	.4	.7	.2	51.4
TOT OBS:	813														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	5.2	.0	2.0	.0	.0	.0	.0	7.2	1.2	.0	37.6	.8	1.6		.0	51.6
06009	8.7	.0	.0	.0	.0	.0	.0	8.7	1.8	.0	33.9	.5	.5		.5	54.1
12015	8.3	.0	2.4	.0	.0	.0	.0	10.7	1.5	.0	36.1	.5	.0		.0	51.2
18021	5.4	.0	1.2	.0	.0	.0	.0	6.6	.0	.0	42.8	.0	.6		.6	49.4
TOT PCT TOT OBS:	6.9 839	.0	1.4	.0	.0	.0	.0	8.3	1.2	.0	37.3	.5	.7		.2	51.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	4.1	2.4	.0	.0	.0		7.8	8.3		7.3	3.9	8.5	6.3	6.1	10.8	9.7	12.4
NE	2.1	4.2	2.1	.4	.0	.0		8.9	8.4		8.0	9.5	3.6	9.3	10.2	4.4	11.5	13.0
E	1.0	4.2	2.6	.2	.0	.0		8.0	9.3		8.2	9.5	6.4	5.0	12.5	6.3	9.0	5.3
SE	2.4	10.1	4.7	.0	.0	.0		17.1	8.5		18.3	17.8	19.1	15.5	19.3	16.8	16.0	12.4
S	5.2	13.9	8.2	.8	.0	.0		28.0	8.9		31.9	32.2	20.6	41.3	19.7	31.3	23.7	22.4
SW	2.0	7.9	4.4	.2	.0	.0		14.6	9.2		8.0	17.4	15.2	13.3	15.2	16.5	16.7	17.9
W	.8	3.1	1.8	.3	.0	.0		6.0	9.5		3.9	5.1	8.2	6.5	7.4	7.6	3.7	5.6
NW	1.1	2.0	1.3	.3	.0	.0		4.6	9.0		5.2	3.7	7.0	1.0	3.9	5.1	3.3	6.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0		8.2	.9	11.3	2.0	5.7	1.3	6.7	2.4
TOT OBS	166	396	221	17	0	0		800	8.4		134	108	97	100	122	79	75	85
TOT PCT	20.8	49.5	27.6	2.1	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.5	3.8	.5	.0	.0		7.8	8.3	5.8	7.4	8.0	11.1
NE	4.5	3.2	1.3	.0	.0		8.9	8.4	8.7	6.5	8.0	13.3
E	3.0	4.1	.9	.0	.0		8.0	9.3	8.8	5.7	10.1	7.0
SE	7.2	8.5	1.5	.0	.0		17.1	8.5	18.1	17.3	18.3	14.1
S	12.2	12.5	3.3	.1	.0		28.0	8.9	32.0	31.1	24.3	23.0
SW	5.5	7.2	1.9	.0	.0		14.6	9.2	12.2	14.2	15.7	17.3
W	2.8	2.2	1.0	.0	.0		6.0	9.5	4.4	7.4	7.5	4.7
NW	2.3	1.7	.5	.1	.0		4.6	9.0	5.1	3.9	4.4	5.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	5.0	6.6	4.0	4.4
TOT OBS	367	345	86	2	0	800	8.4		242	197	201	160
TOT PCT	45.9	43.1	10.8	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	5.0	15.3	52.9	25.2	1.7	.0	.0	8.1	100.0	242
0600	6.6	12.2	53.3	24.9	3.0	.0	.0	8.4	100.0	197
1200	4.0	12.9	47.8	32.8	2.5	.0	.0	9.1	100.0	201
1800	4.4	24.4	41.9	28.1	1.3	.0	.0	8.1	100.0	160
TOT	40	126	396	221	17	0	0	8.4		800
PCT	5.0	15.8	49.5	27.6	2.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.2	1.4	5.7		6.9
NE	.0	.0	.5	8.6		7.9
E	.2	.7	1.4	10.6		7.4
SE	2.8	.8	1.4	9.7		6.3
S	4.7	.9	3.3	13.2		6.0
SW	2.3	1.6	1.3	4.7		5.4
W	.9	.5	1.8	2.7		6.0
NW	1.4	.5	1.0	4.7		6.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	2.0	5.7		6.4
TOT OBS	36	25	57	264	402	6.4
TOT PCT	13.9	6.2	14.2	65.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.6	.0	.2	.0	2.1	1.7	.0	.0	.2	.0	1.2	
NE	4.0	.0	.0	.8	2.7	1.3	.1	.0	.0	.0	.2	
E	3.7	.0	.4	1.2	4.1	1.1	.6	.0	.2	.2	1.3	
SE	5.8	.0	.1	.3	.9	1.6	1.1	.0	.6	.0	4.5	
S	7.8	.0	.2	.7	1.2	4.4	.8	.0	.2	.0	6.7	
SW	3.3	.0	.0	.2	.6	.4	.2	.1	.2	.2	4.1	
W	.4	.0	.0	.2	.9	1.5	.4	.0	.7	.0	1.9	
NW	1.4	.2	.0	.1	1.7	1.1	.8	.0	.1	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2	.0	.0	.0	.7	2.0	.0	.0	.0	.5	2.2	
TOT OBS	134	1	4	14	60	61	17	1	8	4	98	402
TOT PCT	33.3	.2	1.0	3.5	14.9	15.2	4.2	.2	2.0	1.0	24.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0
>A500	2.2	2.7	2.9	2.9	2.9	2.9	2.9	2.9
>5000	2.7	3.2	3.4	3.4	3.4	3.4	3.4	3.4
>3500	4.5	6.6	7.5	7.5	7.5	7.5	7.8	7.8
>2000	11.9	19.5	22.9	23.4	23.4	23.6	23.6	23.8
>1000	16.3	29.7	35.0	36.3	37.5	38.2	38.4	38.4
>600	16.8	31.1	37.2	39.2	40.4	41.6	41.8	41.8
>300	16.8	31.9	38.2	40.1	41.4	42.6	42.8	42.8
>150	16.8	32.1	38.4	40.4	41.6	42.8	43.1	43.1
>0	16.8	32.3	41.8	45.5	48.7	59.6	72.5	75.7
TOTAL	69	137	172	187	200	245	298	311

TOTAL NUMBER OF OBS: 411

PCT FREQ NH <5/8: 24.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	11.8	3.2	3.6	2.9	3.2	2.0	4.1	5.4	32.4	441

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48.7N 145.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.2	.1	1.6	.3	.1	.0	.0	.0	2.7	
	NO PCP	2.4	2.3	2.3	3.6	5.9	3.7	.6	.8	.0	2.1	23.9	
	TOT %	2.7	2.7	2.5	3.7	7.4	4.0	.7	.8	.0	2.1	26.7	
1/2<1	PCP	.1	*	.3	.2	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.3	.7	.4	.8	.6	.1	.0	.1	.0	.1	3.1	
	TOT %	.4	.8	.8	1.1	.6	.1	.0	.1	.0	.1	3.8	
1<2	PCP	.0	.1	.1	.1	.1	.0	.2	.0	.0	.1	.7	
	NO PCP	.0	.3	.4	1.0	.7	.2	.1	.2	.0	.2	3.2	
	TOT %	.0	.6	.4	1.1	.8	.2	.3	.2	.0	.4	4.0	
2<5	PCP	.2	.6	.3	.3	.4	.0	.0	.2	.0	.1	2.1	
	NO PCP	.7	.9	.4	.9	1.6	.6	.6	.6	.0	.4	6.6	
	TOT %	.9	1.5	.7	1.2	2.0	.6	.6	.8	.0	.5	8.7	
5<10	PCP	.1	.1	.2	.1	.8	.2	.1	.2	.0	.1	1.9	
	NO PCP	1.8	1.4	2.6	3.4	4.4	1.5	1.2	1.8	.0	.7	18.7	
	TOT %	1.9	1.5	2.9	3.4	5.1	1.6	1.3	2.0	.0	.9	20.6	
10+	PCP	.0	*	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	2.2	2.2	2.5	4.4	9.5	7.9	3.5	1.9	.0	1.9	35.9	
	TOT %	2.2	2.2	2.7	4.5	9.5	7.9	3.5	1.9	.0	1.9	36.2	
TOT OBS													806
TOT PCT		8.0	9.2	10.0	15.1	25.5	14.3	6.5	5.7	.0	5.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	1.0	.3	.7	.7	.4	.1	.0	.0	1.8	5.6	
	4-10	1.3	.8	1.2	3.7	4.2	2.2	.2	.4	.0	.0	14.2	
	11-21	.6	.2	1.0	1.7	2.7	1.7	.3	.4	.0	.0	8.7	
	22+	.0	.1	.0	.0	.4	*	.0	.0	.0	.0	.5	
	TOT %	2.6	2.1	2.6	6.1	8.0	4.3	.6	.8	.0	1.8	29.0	
1/2<1	0-3	.0	.4	.0	.1	.1	.0	.0	.0	.0	.1	.8	
	4-10	.3	.4	.3	.7	.3	.1	.0	.1	.0	.0	2.2	
	11-21	.1	.1	.0	.1	.3	.1	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.9	.3	1.0	.8	.2	.0	.1	.0	.1	3.6	
1<2	0-3	.1	.1	.0	.1	.6	*	.0	.0	.0	.5	1.4	
	4-10	.0	.3	.2	.8	1.1	.0	.3	.0	.0	.0	2.7	
	11-21	.0	.0	.1	.2	.4	.0	.1	.0	.0	.0	.9	
	22+	.0	.1	.1	.0	.1	.2	.0	.0	.0	.0	.4	
	TOT %	.1	.4	.4	1.1	2.2	.2	.4	.0	.0	.5	5.4	
2<5	0-3	.2	.2	.0	.3	1.1	*	.1	.1	.0	.3	2.2	
	4-10	.3	.6	.5	.9	1.3	.5	.4	.3	.0	.0	4.9	
	11-21	.3	.8	.3	.3	.7	.1	.1	.5	.0	.0	3.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.7	1.6	.8	1.5	3.0	.7	.7	.9	.0	.3	10.2	
5<10	0-3	.2	.0	.2	.4	1.1	.1	.1	.6	.0	.8	3.6	
	4-10	1.1	.6	.9	1.6	1.4	.7	.4	.4	.0	.0	7.2	
	11-21	.6	.7	.5	1.2	1.9	.6	.7	.1	.0	.0	6.3	
	22+	.0	.3	.0	.0	.4	.0	.0	.1	.0	.0	.8	
	TOT %	1.9	1.6	1.6	3.2	4.9	1.4	1.2	1.2	.0	.8	17.8	
10+	0-3	.2	.4	.5	.7	1.7	1.4	.5	.4	.0	1.4	7.3	
	4-10	1.0	1.3	1.0	2.2	5.9	4.5	1.9	.8	.0	.0	18.6	
	11-21	.7	.4	.6	1.3	1.8	2.1	.7	.2	.0	.0	7.8	
	22+	.0	.0	.1	.0	.0	.0	.1	.1	.0	.0	.4	
	TOT %	1.9	2.2	2.2	4.2	9.3	8.0	3.2	1.6	.0	1.4	34.1	
TOT OBS													783
TOT PCT		7.5	8.9	7.8	17.2	28.2	14.9	6.1	4.6	.0	4.9	100.0	

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TABLE 10

AREA 0020 SAKHALIN ISLAND SE
48.7N 143.6EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	30.0	.0	1.5	3.1	16.9	16.2	3.1	.0	3.1	1.5	75.4	24.6	130
06009	36.1	.0	.9	1.9	13.0	15.7	6.5	.0	.9	1.9	76.9	23.1	108
12015	31.4	.0	.8	4.2	12.7	16.9	4.2	.8	.8	.8	72.9	27.1	118
18021	31.9	1.4	.0	4.2	13.9	13.9	2.8	1.4	2.8	.0	72.2	27.8	72
TOT	138	1	4	14	61	68	18	2	8	5	319	109	428
PCT	32.2	.2	.9	3.3	14.3	15.9	4.2	.5	1.9	1.2	74.5	25.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	25.3	4.5	4.8	10.4	18.6	36.4	269
06009	25.2	2.1	6.4	10.3	20.9	35.0	234
12015	32.3	3.6	6.3	11.2	16.1	30.5	223
18021	29.2	6.2	4.5	10.1	21.3	28.7	178
TOT	251	36	50	95	173	299	904
PCT	27.8	4.0	5.8	10.5	19.1	33.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	29.6	34.4	44.8	34.4	20.8	125
06009	36.2	39.0	52.4	27.6	20.0	105
12015	31.9	38.9	52.2	27.4	20.4	113
18021	33.8	38.2	51.5	27.9	20.6	68
TOT	134	154	205	122	84	411
PCT	32.6	37.3	49.9	29.7	20.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.0	1.7	1	1.7	
60/64	.0	.0	.0	.0	.0	.0	1.7	1	1.7	
55/59	.0	.0	.0	.0	.0	1.7	3.4	5	8.5	
50/54	.0	.0	.0	.0	1.7	3.4	3.4	17	28.8	
45/49	.0	.0	.0	.0	1.7	3.4	3.4	29	49.2	
40/44	.0	.0	.0	.0	1.7	3.4	3.4	5	8.5	
35/39	.0	.0	.0	.0	1.7	3.4	3.4	51	99	100.0
TOTAL	0	0	0	0	1	4	3	51	99	100.0
PCT	.0	.0	.0	.0	1.7	6.8	5.1	86.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	1.3	.4	.0	.0	.0	.0
.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
.0	.0	1.3	.4	.0	.0	.0	.0	.0	.0
.0	.0	.0	.4	1.3	.0	1.7	.0	.0	5.1
6.4	.4	6.4	3.4	1.7	6.8	.0	.4	.0	3.4
3.4	8.5	14.8	7.6	3.0	1.7	3.0	7.2	.0	.0
1.7	2.1	1.3	.0	1.7	.0	.0	1.7	.0	.0
11.4	11.0	25.4	11.9	8.9	8.9	4.7	9.3	.0	8.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	68	60	48	37	34	34	47.9	274
06009	68	62	59	48	37	34	32	47.3	238
12015	66	63	56	44	34	27	27	44.1	227
18021	64	62	54	44	34	30	27	43.7	179
TOT	72	64	58	46	36	32	27	46.0	918

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	10.5	10.5	78.9	93	19
06009	.0	.0	5.6	11.1	.0	83.3	93	18
12015	.0	.0	.0	.0	6.7	93.3	96	15
18021	.0	12.5	.0	.0	.0	87.5	90	8
TOT	0	1	1	4	3	51	93	60

JUNE

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1933-1974

TABLE 17

AREA 0020 SAKMALIN ISLAND SE
48.7N 145.6EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	M FOG	WD FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	5	.3	.4
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.1	.4	.0	.0	.0	5	.4	.3
14/16	.0	.0	.0	.0	.3	.3	1.0	.3	.4	.1	.0	18	.3	2.0
11/13	.0	.0	.0	.0	.6	.6	.9	.5	.4	.3	.0	26	.6	2.6
9/10	.0	.0	.1	.3	1.3	1.3	.9	.3	.3	.1	.0	35	1.0	3.4
7/8	.0	.0	.1	.5	1.5	3.3	.9	.4	.5	.0	.0	57	2.8	4.4
6	.0	.0	.0	.3	.1	.8	.6	.1	.1	.0	.0	16	.5	1.5
4	.0	.0	.1	1.5	4.0	1.8	.3	.3	.1	.0	.0	64	2.5	5.5
3	.0	.3	.6	2.3	4.9	1.9	1.3	.3	.0	.1	.0	92	3.8	7.8
2	.0	.0	.3	1.3	.6	.5	.5	.1	.0	.0	.0	26	.9	2.4
1	.0	.6	1.4	1.8	5.7	1.8	1.0	.5	.1	.0	.0	102	5.0	7.8
0	.0	.3	.6	1.5	1.1	.8	.5	.0	.0	.0	.0	38	2.0	2.8
-1	.1	2.0	2.4	3.6	5.2	1.3	1.0	.1	.0	.0	.0	125	7.2	8.5
-2	.0	.4	1.1	1.5	.1	.3	.0	.0	.0	.0	.0	27	1.6	1.8
-3	.0	.9	1.8	2.4	1.6	.8	.1	.0	.0	.0	.0	60	3.4	4.1
-4	.0	.3	.6	.5	.8	.1	.0	.0	.0	.0	.0	18	.8	1.5
-5	.1	.5	1.1	.8	2.0	.1	.0	.0	.0	.0	.0	27	2.4	2.3
-6	.1	.1	.4	.4	1.4	.3	.0	.0	.0	.0	.0	21	.9	1.8
-7/-8	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	3	.3	.1
-9/-10	.3	.1	.0	.3	.4	.1	.0	.0	.0	.0	.0	9	.3	.9
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.3	.3
-14/-16	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.4
-17/-19	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	7	44	90	151	253	128	72	25	17	7	2	796	294	502
PCT	.9	5.5	11.3	19.0	31.8	16.1	9.0	3.1	2.1	.9	.3	100.0	36.9	63.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.8	.0	.0	.0	.0	1.6	.2	1.7	.0	.0	.0	.0	.0	1.9	.2
1-2	.0	.9	1.5	.0	.0	.0	2.5	.0	2.5	1.1	.0	.0	.0	.0	3.6	.0
3-4	.0	.3	1.2	.0	.0	.0	1.5	.0	1.0	.0	.0	.0	.0	.0	1.0	.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.3	.0
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.7	.0	.0	.0	1.1	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.7	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.6	.0	.0	.0	6.9	.2	5.6	2.0	1.0	.0	.0	.0	8.8	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	2.2	.0	.0	.0	.0	3.0	.5	2.0	.7	.0	.0	.0	.0	3.2	.5
1-2	.0	2.0	2.7	.0	.0	.0	4.7	.0	3.8	3.4	.0	.0	.0	.0	7.2	.0
3-4	.0	.7	.9	.0	.0	.0	1.5	.0	1.0	2.2	.0	.0	.0	.0	3.3	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	.0
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.0	.0	.0	.0	.0	1.0	.0
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.9	4.5	.3	.0	.0	10.5	.5	6.8	8.9	.0	.0	.0	.0	16.2	.0

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0020 SAKHALIN ISLAND SE
48.7N 143.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	2.2	.3	.0	.0	.0	2.8	.3	1.5	.0	.0	.0	.0	1.8	
1-2	.0	3.8	6.2	.0	.0	.0	10.0	.0	2.5	2.0	.0	.0	.0	4.5	
3-4	.0	1.7	4.0	.3	.0	.0	6.0	.0	.7	2.3	.0	.0	.0	3.0	
5-6	.0	.0	3.1	.0	.0	.0	3.1	.0	.0	1.5	.0	.0	.0	1.5	
7	.0	.5	.3	.6	.0	.0	1.4	.0	.2	.8	.4	.0	.0	1.4	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	8.2	19.8	1.6	.0	.0	24.0	.3	4.8	6.6	.4	.0	.0	12.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	.9	1.3	.0	.0	.0	2.1	.0	1.2	.6	.0	.0	.0	1.8	
3-4	.0	.0	.9	.0	.0	.0	.9	.0	1.0	1.2	.3	.0	.0	2.6	
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.1	.3	.0	.0	.4	
7	.0	.3	.3	.0	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.3	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.8	4.2	.3	.0	.0	6.4	.0	3.1	2.1	.7	.0	.0	5.8	90.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.6	12.3	1.0	.0	.0	.0	25.0	
1-2	.0	17.5	18.8	.0	.0	.0	36.3	
3-4	.0	6.5	12.7	.7	.0	.0	19.9	
5-6	.0	.3	7.2	.3	.0	.0	7.9	
7	.0	1.0	3.8	1.7	.0	.0	6.5	
8-9	.0	.0	.7	1.0	.0	.0	1.7	
10-11	.0	.0	1.0	.7	.0	.0	1.7	
12	.0	.3	.3	.0	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.3	.0	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.6	38.4	45.5	4.5	.0	.0	100.0	292

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	17.8	13.1	5.9	2.5	.0	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	3
6-7	.0	3.5	5.7	5.0	3.7	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	5
8-9	.0	.2	.7	1.2	2.2	.7	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
10-11	.0	3.0	1.0	.2	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
12-13	.0	.0	3.5	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
>13	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	6.4	4.2	5.2	3.2	.7	1.0	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	3
TOTAL	35	116	118	64	41	12	10	4	1	3	0	0	0	0	0	0	0	0	0	404	4
PCT	8.7	28.7	29.2	15.8	10.1	3.0	2.5	1.0	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1885-1974

JULY

AREA 0020 SAKHALIN ISLAND SE
48.7N 143.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	5.3	.0	3.5	.0	.0	.0	.0	8.8	1.8	.0	37.4	1.8	.0	.0	50.2
NE	7.5	.0	3.0	.0	.0	.0	.0	10.5	2.0	.0	36.7	1.5	2.0	1.0	46.4
E	11.2	.0	4.9	.0	.0	.0	.0	16.2	.8	.0	30.1	4.7	1.1	.0	47.1
SE	5.3	.0	3.5	.0	.0	.0	.0	8.8	.2	.0	48.4	.2	.8	.0	41.6
S	3.5	.0	2.8	.0	.0	.0	.0	6.3	.8	.0	40.7	.4	.8	.0	51.1
SW	1.2	.0	2.0	.0	.0	.0	.0	3.2	.4	.0	31.4	1.0	1.2	.0	62.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.8	1.3	1.7	.0	72.2
NW	1.5	.0	4.5	.0	.0	.0	.0	6.1	.0	.0	32.6	.4	1.5	.0	59.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	47.8	4.3	2.2	.0	43.5
TOT PCT	4.2	.0	3.0	.0	.0	.0	.0	7.2	.7	.0	37.4	1.4	1.1	.1	52.1
TOT OBS:	872														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
0000	3.6	.4	2.4	.0	.0	.0	.0	6.4	.8	.0	38.6	1.6	1.6	.0		51.0
0600	3.3	.0	4.7	.0	.0	.0	.0	7.9	.9	.0	35.0	1.9	1.9	.0		52.3
1200	5.4	.0	2.9	.0	.0	.0	.0	8.3	1.2	.0	33.1	1.7	.8	.0		55.0
1800	4.7	.0	1.6	.0	.0	.0	.0	6.3	.5	.0	43.2	.0	.0	.5		49.5
TOT PCT	4.2	.1	2.9	.0	.0	.0	.0	7.2	.9	.0	37.2	1.3	1.1	.1		52.1
TOT OBS:	897															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.3	4.5	1.4	.3	.0	.0		7.4	8.5	11.6	5.4	5.3	7.1	6.5	7.5	5.8	8.8	
NE	2.0	4.8	4.0	.2	.0	.0		11.1	9.3	13.8	10.1	14.7	10.6	12.6	8.4	10.2	7.7	
E	1.7	4.9	3.0	.6	.0	.1		10.3	9.9	12.0	7.4	7.5	6.0	11.2	13.7	16.5	8.6	
SE	2.0	6.1	4.6	.6	.1	.0		13.5	10.0	11.4	12.1	17.5	12.4	15.9	14.4	17.6	7.5	
S	3.5	14.8	5.8	.5	.0	.0		24.5	8.2	16.6	31.2	23.0	32.6	25.8	23.2	20.9	24.8	
SW	2.4	9.0	3.6	.0	.0	.0		15.1	8.1	11.6	18.6	14.0	15.6	9.8	19.5	11.0	21.3	
W	1.2	4.2	1.2	.0	.0	.0		6.6	7.2	6.1	7.4	6.4	7.3	5.7	7.1	5.2	7.5	
NW	.9	4.0	1.6	.0	.0	.0		6.5	7.9	7.0	7.7	5.5	4.8	7.7	5.3	6.3	7.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.0							5.0	.0	10.0	.0	6.1	3.7	4.9	.9	6.6	6.1	
TOT OBS	181	473	229	20	1	1	905		8.2	140	101	114	109	123	113	91	114	
TOT PCT	20.0	52.3	25.3	2.2	.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.7	2.8	.9	.0	.0		7.4	8.5	9.0	6.2	7.0	7.4
NE	4.3	3.5	1.2	.1	.0		11.1	9.3	12.2	12.7	10.6	8.8
E	4.1	4.6	1.4	.1	.1		10.3	9.9	10.1	6.7	12.4	12.1
SE	5.9	5.3	1.9	.2	.1		13.5	10.0	11.7	15.0	15.1	12.0
S	11.9	10.7	1.9	.1	.0		24.5	8.2	22.7	27.7	24.6	23.0
SW	6.9	7.3	.9	.0	.0		15.1	8.1	14.5	14.8	14.4	16.7
W	3.7	2.5	.3	.0	.0		6.6	7.2	6.6	6.8	6.4	6.5
NW	3.0	3.3	.2	.0	.0		6.5	7.9	7.3	5.2	6.6	7.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	5.8	4.9	3.0	6.3
TOT OBS	439	380	79	5	2	905		8.2	241	223	236	205
TOT PCT	48.5	42.0	8.7	.6	.2		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1885-1974

TABLE 4

AREA 0020 SAKHALIN ISLAND SE
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	5.8	12.9	48.1	31.5	1.7	.0	.0	8.5	100.0	241
06009	4.9	14.3	51.1	27.4	2.2	.0	.0	8.4	100.0	223
12015	3.0	14.8	57.6	22.5	1.3	.4	.4	8.2	100.0	236
18021	6.3	18.5	52.2	19.0	3.9	.0	.0	7.8	100.0	205
TOT	45	136	473	229	20	1	1	8.2		905
PCT	5.0	15.0	52.3	25.3	2.2	.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.5	1.2	5.3		7.2
NE	.3	.7	1.2	11.6		7.4
E	.4	.0	1.2	8.7		7.6
SE	.8	.8	.8	16.1		7.4
S	2.6	.7	2.3	12.3		6.5
SW	1.2	.5	1.8	7.2		6.7
W	.8	.2	.2	4.7		6.6
NW	.7	.5	1.3	6.9		7.0
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.7	4.9		6.9
TOT OBS	32	17	44	316	409	7.1
TOT PCT	7.8	4.2	10.8	77.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.0	.0	.0	.0	2.2	1.8	.4	.0	.0	.0	.9	
NE	4.6	.0	.5	1.2	3.3	1.8	.7	.5	.0	.0	1.3	
E	2.8	.0	.2	.0	1.7	4.2	1.1	.0	.0	.0	.4	
SE	7.7	.0	.1	.9	2.8	3.1	.9	.5	.0	.2	2.3	
S	7.0	.0	.4	.8	2.3	2.7	.2	.0	.2	.5	3.8	
SW	3.7	.0	.2	.1	2.7	.9	.7	.2	.0	.0	2.2	
W	1.3	.0	.0	.2	1.3	1.0	.2	.0	.0	.2	1.0	
NW	3.2	.0	.0	.2	1.3	2.0	.6	.2	.0	.3	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4	.2	.0	.2	.7	.5	.2	.0	.0	.2	1.0	
TOT OBS	146	1	6	15	75	73	21	6	1	6	59	409
TOT PCT	35.7	.2	1.5	3.7	18.3	17.8	5.1	1.5	.2	1.5	14.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >5000	1.7	2.6	2.9	2.9	2.9	3.1	3.1	3.1
= OR >3500	2.6	5.8	7.0	7.5	7.5	7.9	7.9	7.9
= OR >2000	9.1	20.7	25.0	26.0	26.2	26.7	26.7	26.7
= OR >1000	15.6	32.5	39.7	41.6	42.3	42.8	44.2	44.5
= OR >600	16.3	34.1	42.1	44.2	45.0	45.7	47.6	47.8
= OR >300	16.6	34.6	43.3	45.4	46.2	47.1	49.0	49.3
= OR >150	16.6	34.9	43.5	45.7	46.4	47.4	49.3	49.5
= OR >0	17.1	36.8	48.3	52.2	54.8	65.9	83.2	85.8
TOTAL	71	153	201	217	228	274	346	357

TOTAL NUMBER OF OBS: 416

PCT FREQ NH <5/8: 14.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.9	2.0	3.1	2.0	1.6	1.9	3.6	4.5	42.5	34.4	445

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1889-1974

JULY

AREA 0020 SAKHALIN ISLAND SE
48.7N 143.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.3	.2	.2	.7	.3	.0	.1	.0	.0	1.8	
	NO PCP	1.6	2.8	2.4	4.6	6.7	3.6	1.2	1.6	.0	2.3	26.8	
	TOT %	1.7	3.1	2.6	4.8	7.4	3.9	1.2	1.7	.0	2.3	28.7	
1/2<1	PCP	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.3	.5	.5	.5	.5	.1	.2	.1	.0	.1	2.9	
	TOT %	.3	.5	.6	.7	.6	.1	.2	.1	.0	.1	3.2	
1<2	PCP	.1	.2	.3	.1	.1	.0	.0	.2	.0	.1	1.2	
	NO PCP	.4	.5	.6	.7	.7	.8	.2	.2	.0	.1	4.1	
	TOT %	.5	.7	.9	.7	.8	.8	.2	.4	.0	.2	5.3	
2<5	PCP	.2	.7	.9	.5	.2	.1	.0	.0	.0	.0	2.6	
	NO PCP	.3	1.4	.7	1.4	1.6	.5	.2	.9	.0	.2	7.4	
	TOT %	.5	2.1	1.6	1.9	1.8	.6	.2	.9	.0	.2	10.0	
5<10	PCP	.1	.0	.2	.3	.4	.1	.0	.1	.0	.0	1.2	
	NO PCP	1.4	2.3	2.3	3.2	4.0	3.0	1.5	2.1	.0	.9	20.7	
	TOT %	1.5	2.3	2.5	3.4	4.4	3.1	1.5	2.2	.0	.9	21.9	
10+	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	2.0	2.8	2.3	2.8	7.7	6.0	3.4	2.4	.0	1.5	30.8	
	TOT %	2.0	2.8	2.3	2.9	7.7	6.0	3.4	2.4	.0	1.5	30.9	
TOT OBS													868
TOT PCT		6.9	11.5	10.5	14.5	22.7	14.5	6.7	7.6	.0	5.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.3	.3	.8	1.0	1.0	.2	.0	.0	2.3	6.1	
	4-10	1.7	1.5	1.8	2.7	4.7	2.2	1.2	.9	.0		16.6	
	11-21	.5	1.2	1.1	1.2	2.3	1.2	.2	.7	.0		8.4	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	2.4	3.0	3.2	4.8	8.0	4.4	1.6	1.5	.0	2.3	31.3	
1/2<1	0-3	.1	.1	.3	.2	.1	.0	.0	.0	.0	.1	.9	
	4-10	.2	.3	.1	.4	.3	.1	.1	.1	.0		1.5	
	11-21	.0	.2	.2	.3	.3	.1	.2	.0	.0		.9	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.3	.6	.6	.6	.7	.2	.3	.1	.0	.1	3.4	
1<2	0-3	.1	.2	.1	.1	.4	.2	.0	.2	.0	.2	1.6	
	4-10	.2	.1	.3	.4	.7	.4	.1	.0	.0		2.3	
	11-21	.2	.3	.3	.3	.3	.2	.1	.4	.0		2.0	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.5	.7	.7	.8	1.4	.8	.2	.6	.0	.2	6.0	
2<5	0-3	.2	.6	.3	.2	.1	.3	.1	.1	.0	.5	2.3	
	4-10	.3	1.0	1.0	.4	1.7	.7	.1	.3	.0		5.6	
	11-21	.2	.8	.4	1.1	.4	.0	.2	.0	.0		3.1	
	22+	.1	.1	.3	.0	.1	.0	.0	.0	.0		.7	
	TOT %	.8	2.5	2.0	1.7	2.4	1.1	.3	.6	.0	.5	11.7	
5<10	0-3	.2	.2	.2	.4	.7	.3	.3	.2	.0	.9	3.4	
	4-10	1.0	.5	1.1	1.0	2.8	2.0	.7	1.3	.0		10.6	
	11-21	.1	1.3	.5	1.2	.5	.7	.3	.4	.0		5.1	
	22+	.1	.0	.2	.4	.2	.0	.0	.0	.0		.9	
	TOT %	1.5	2.0	2.1	3.0	4.2	3.1	1.3	1.9	.0	.9	20.0	
10+	0-3	.4	.6	.6	.4	.9	.7	.6	.5	.0	1.0	5.7	
	4-10	1.1	1.2	.7	1.1	4.5	3.6	2.1	1.5	.0		15.8	
	11-21	.2	.5	.6	.9	2.0	1.3	.4	.1	.0		6.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.7	2.3	2.0	2.4	7.3	5.7	3.1	2.0	.0	1.0	27.6	
TOT OBS													871
TOT PCT		7.3	11.1	10.6	13.4	24.0	15.2	6.7	6.7	.0	5.1	100.0	

JULY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1885-1974AREA 0020 SAKHALIN ISLAND SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	100	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	38.9	.0	1.4	2.1	18.8	18.8	3.5	.0	.0	2.1	85.4	14.6	144
06009	29.2	.9	1.9	3.8	24.5	16.0	2.8	1.9	.9	2.8	84.9	15.1	106
12015	33.6	.0	1.8	6.2	14.2	19.5	8.8	1.8	.0	.0	85.8	14.2	113
18021	43.1	.0	.0	1.5	13.8	18.5	6.2	3.1	.0	1.5	87.7	12.3	65
TOT	153	1	6	15	76	78	22	6	1	7	367	61	428
PCT	39.7	.2	1.4	3.5	18.2	18.2	5.1	1.4	.2	1.6	85.7	14.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	32.9	4.3	5.8	8.7	20.6	27.8	277
06009	26.6	4.1	5.4	12.9	18.3	32.8	241
12015	32.3	1.5	5.6	14.5	21.2	24.9	269
18021	34.3	2.3	7.5	11.7	18.3	25.8	213
TOT	315	31	60	119	197	278	1000
PCT	31.5	3.1	6.0	11.9	19.7	27.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND3+	NH <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	39.4	43.0	53.5	53.5	14.1	142
06009	31.4	38.2	48.0	39.2	12.7	102
12015	33.9	41.3	61.5	26.6	11.9	109
18021	42.9	46.0	57.1	31.7	11.1	63
TOT	152	174	228	135	53	416
PCT	36.5	41.8	54.8	32.5	12.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
60/64	.0	4.5	.0	.0	.0	.0	.0	.0	2	4.5
55/59	.0	.0	2.3	2.3	2.3	.0	.0	9.1	7	15.9
50/54	.0	.0	.0	2.3	.0	.0	.0	22.7	11	25.0
45/49	.0	.0	.0	.0	.0	.0	15.9	31.8	21	47.7
40/44	.0	.0	.0	.0	.0	.0	.0	6.8	3	6.8
TOTAL	0	2	1	2	1	0	7	31	44	100.0
PCT	.0	4.5	2.3	4.5	2.3	.0	15.9	70.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	4.0	.6	.0	.0	.0	.0
.0	.0	2.3	.0	5.7	5.7	2.3	.0	.0	.0
.0	.0	2.3	7.4	1.7	6.8	4.5	2.3	.0	.0
6.3	4.5	4.5	6.8	4.5	7.4	3.4	10.2	.0	.0
.0	.0	1.7	2.8	.0	2.3	.0	.0	.0	.0
6.3	4.5	10.8	17.0	15.9	22.7	10.2	12.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	75	70	66	52	43	39	37	52.9	275
06009	81	70	68	54	43	34	34	54.0	249
12015	68	66	63	52	41	34	32	51.4	274
18021	71	67	61	52	41	36	34	51.6	220
TOT	81	69	66	52	43	37	32	52.5	1018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	18.2	4.5	.0	4.5	72.7	84	22
06009	.0	16.7	.0	.0	33.3	50.0	87	6
12015	.0	.0	.0	.0	25.0	75.0	94	8
18021	.0	.0	.0	.0	22.2	77.8	95	9
TOT	0	5	1	0	7	32	88	45

JULY

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1885-1974AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1	3	.1	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0	.2
17/19	.0	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0	4	.2	.2
14/16	.0	.0	.0	.0	.2	.2	.1	.7	.4	.5	.0	.0	.0	18	.2	1.9
11/13	.0	.0	.0	.1	.0	.4	.7	.6	.8	.4	.2	.0	.0	27	.7	2.5
9/10	.0	.0	.0	.0	.5	.9	.9	.5	.7	.1	.0	.0	.0	31	1.3	2.4
7/8	.0	.0	.4	.6	.9	1.5	.5	.7	.5	.1	.0	.0	.0	46	2.0	3.4
6	.0	.0	.0	.2	.2	.6	.2	.1	.0	.2	.0	.0	.0	16	.8	1.1
5	.0	.1	.1	.8	1.4	2.0	1.2	.9	.2	.1	.0	.0	.0	59	1.9	5.1
4	.0	.1	.4	1.9	2.6	1.8	1.5	1.3	.4	.0	.0	.0	.0	84	3.8	6.2
3	.0	.0	.2	1.2	1.7	1.1	.4	.5	.0	.0	.0	.0	.0	42	2.0	3.0
2	.2	.0	.5	4.1	2.7	4.1	2.8	1.4	.0	.0	.0	.0	.0	135	6.9	9.1
1	.0	.4	.1	.9	2.0	.7	.2	.0	.0	.0	.0	.0	.0	39	2.2	2.4
0	.0	.1	.5	4.4	3.7	2.2	1.4	.6	.1	.0	.0	.0	.0	110	5.8	7.2
-1	.0	.0	.2	1.7	1.3	.5	.2	.1	.0	.0	.0	.0	.0	34	1.4	2.6
-2	.0	.2	.6	3.1	2.5	2.4	.8	.6	.0	.0	.0	.0	.0	86	3.4	6.7
-3	.0	.1	.1	.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	17	.7	1.3
-4	.0	.2	.5	2.1	.8	.5	1.1	.1	.0	.0	.0	.0	.0	45	2.0	3.3
-5	.0	.0	.6	1.1	.5	.2	.2	.1	.0	.0	.0	.0	.0	23	.5	2.2
-6	.0	.1	.1	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	8	.5	.5
-7/-8	.0	.1	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	.6	.4
-9/-10	.0	.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.1	.5
-11/-13	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	3	14	39	208	187	168	106	74	30	13	2	0	1	845	315	530
PCT	.4	1.7	4.6	24.6	22.1	19.9	12.5	8.8	3.6	1.5	.2	.0	.1	100.0	37.3	62.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4	<1	.7	1.6	.0	.0	.0	.0	2.3
1-2	.0	2.5	.3	.0	.0	.0	2.7	1-2	.1	1.4	2.5	.0	.0	.0	4.0
3-4	.0	.6	.8	.0	.0	.0	1.4	3-4	.0	2.0	3.2	.0	.0	.0	5.3
5-6	.0	.0	.7	.3	.0	.0	1.0	5-6	.0	.0	1.0	.1	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.3	.7	.0	.0	1.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	2.5	1.0	.0	.0	8.9	TOT PCT	.8	5.1	7.7	.4	.0	.0	14.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.6	.3	.0	.0	.0	2.3	<1	.3	2.3	.0	.0	.0	.0	2.6
1-2	.3	1.3	.9	.0	.0	.0	2.5	1-2	.0	2.5	1.1	.0	.0	.0	3.6
3-4	.0	.0	2.4	.0	.0	.0	2.4	3-4	.0	.0	3.6	.3	.0	.0	4.0
5-6	.0	.0	1.0	.5	.0	.0	1.5	5-6	.0	.0	1.7	.5	.0	.0	2.2
7	.0	.3	.0	.3	.0	.0	.6	7	.0	.0	1.1	.1	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.3	.3	.0	.0	.6	10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.3	.0	.0	.0	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.2	4.9	1.1	.0	.0	9.8	TOT PCT	.7	4.7	8.0	1.3	.3	.0	15.0

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	5.1	1.0	.0	.0	.0	7.1	.0	1.9	.0	.0	.0	.0	1.9
1-2	1.0	3.1	3.2	.0	.0	.0	7.3	.0	1.4	1.5	.0	.0	.0	2.9
3-4	.0	1.9	2.8	.3	.0	.0	5.1	.0	1.1	2.2	.0	.0	.0	3.3
5-6	.0	.0	1.0	.6	.0	.0	1.6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.6	.3	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	10.4	8.6	1.3	.0	.0	22.4	.0	4.4	4.4	.0	.0	.0	8.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.4	.0	.0	.0	.0	1.8	.0	3.0	.0	.0	.0	.0	3.0	
1-2	.0	.3	1.7	.0	.0	.0	1.9	.0	1.9	1.7	.0	.0	.0	3.6	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.7	2.0	.0	.0	.0	4.1	.0	6.0	2.5	.0	.0	.0	8.6	91.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	19.3	1.4	.0	.0	.0	31.9	
1-2	1.4	14.2	12.9	.0	.0	.0	28.5	
3-4	.0	6.8	15.6	.7	.0	.0	23.1	
5-6	.0	.0	6.1	2.0	.0	.0	8.1	
7	.0	.3	3.1	.7	.0	.0	4.1	
8-9	.0	.0	.7	.7	.0	.0	1.4	
10-11	.0	.0	1.0	.7	.0	.0	1.7	
12	.0	.3	.0	.0	.0	.0	.3	
13-16	.3	.0	.0	.3	.3	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.9	41.0	40.7	5.1	.3	.0	100.0	295

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	13.5	12.1	4.3	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	3
6-7	.0	3.4	6.8	4.6	1.9	.7	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	4
8-9	.0	.0	1.9	.5	.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
10-11	.0	1.9	.2	1.2	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	1.4	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
>13	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
IMDET	13.8	8.9	8.5	1.7	1.7	1.0	1.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	3
TOTAL	63	115	128	53	24	12	10	4	5	0	0	0	0	0	0	0	0	0	0	414	3
PCT	15.2	27.8	30.9	12.8	5.8	2.9	2.4	1.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1908-1974AREA 0020 SAKHALIN ISLAND SE
48.8N 143.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.2	.0	6.3	.0	.0	.0	.0	8.7	.9	.0	20.8	.9	.0	.0	68.8
NE	16.0	.3	7.3	.0	.0	.0	.0	23.6	.0	.0	27.3	.3	.0	.0	48.6
E	12.2	1.0	2.0	.0	.0	.0	.0	13.9	1.0	.0	31.1	1.0	.0	1.4	51.7
SE	9.3	.0	3.0	.0	.0	.0	.0	12.4	.3	.0	34.1	2.2	1.1	1.1	48.9
S	3.5	.9	3.3	.0	.0	.0	.0	7.7	.0	.0	28.3	1.7	.5	.5	61.4
SW	3.1	.0	.7	.0	.0	.0	.0	3.8	.7	.0	28.3	.2	.7	.0	66.4
W	2.7	.0	1.4	.0	.0	.0	.0	2.7	1.0	.0	25.0	.0	.0	.0	71.2
NW	1.9	.0	3.4	.0	.0	.0	.0	5.2	1.9	.0	19.9	.0	.0	.0	73.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	1.6	3.1	.0	.0	.0	.0	6.3	1.6	.0	37.5	.0	.0	.0	54.7
TOT PCT	5.5	.4	3.3	.0	.0	.0	.0	8.9	.6	.0	27.8	.9	.3	.3	61.1
TOT OBS:	934														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.7	.4	2.7	.0	.0	.0	.0	7.4	.4	.0	26.7	1.2	1.2	.8	62.4
06009	6.8	.4	2.8	.0	.0	.0	.0	10.0	1.6	.0	24.3	1.2	.0	.4	62.3
12015	4.7	.4	3.6	.0	.0	.0	.0	8.3	.0	.0	25.3	.8	.0	.0	65.6
18021	4.9	.5	4.4	.0	.0	.0	.0	9.2	.5	.0	33.5	.0	.0	.0	56.8
TOT PCT	5.3	.4	3.3	.0	.0	.0	.0	8.7	.6	.0	27.2	.8	.3	.3	62.1
TOT OBS:	968														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.1	5.5	4.0	.6	.0	.0		12.2	9.9	8.8	13.9	12.8	14.0	10.2	14.2	17.4	9.5	
NE	1.5	3.9	2.8	.7	.1	.0		9.0	10.5	6.7	10.9	7.8	11.5	7.7	10.5	6.0	12.7	
E	1.7	3.4	1.4	.5	.1	.0		7.1	9.0	7.5	10.9	6.3	3.0	6.6	7.4	7.6	7.3	
SE	1.9	4.1	2.9	.3	.0	.0		9.2	8.8	10.0	9.5	9.8	10.8	9.9	6.8	5.7	9.5	
S	2.3	11.7	8.8	.5	.0	.0		23.3	10.1	22.1	23.2	28.7	21.8	22.0	23.4	20.3	23.9	
SW	2.5	9.3	5.2	.4	.0	.0		17.4	8.9	19.7	19.1	14.7	17.5	12.3	21.3	15.4	21.1	
W	1.3	5.0	2.3	.1	.0	.0		8.7	8.3	11.8	5.5	8.6	6.5	9.4	7.9	11.5	7.3	
NW	1.2	3.8	1.8	.2	.0	.0		7.0	9.1	7.6	5.2	5.2	8.0	11.3	6.3	6.8	4.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.1							6.1	.0	5.7	1.8	6.1	7.0	10.5	2.1	9.4	4.5	
TOT OBS	199	452	283	32	2	0	968		8.9	157	110	148	100	152	95	96	110	
TOT PCT	20.6	46.7	29.2	3.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	06	12	18	
N	5.2	4.9	2.0	.2	.0		12.2	9.9	8.8	10.9	13.3	11.7	13.2	
NE	3.4	3.5	1.9	.1	.0		9.0	10.5	6.7	8.4	9.3	8.8	9.6	
E	3.2	2.9	.9	.0	.1		7.1	9.0	7.5	8.9	4.9	6.9	7.4	
SE	3.9	4.5	.8	.0	.0		9.2	8.8	10.0	9.8	10.2	8.7	7.8	
S	7.4	12.7	3.2	.1	.0		23.3	10.1	22.1	22.6	25.9	22.6	22.2	
SW	7.6	8.2	1.5	.1	.0		17.4	8.9	19.7	19.5	15.8	15.8	18.4	
W	4.5	3.6	.7	.0	.0		8.7	8.3	11.8	9.2	7.8	8.8	9.2	
NW	2.8	3.2	.9	.1	.0		7.0	9.1	7.6	6.6	6.4	9.4	5.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
CALM	6.1						6.1	.0	5.7	4.1	6.5	7.3	6.8	
TOT OBS	426	422	115	4	1	968		8.9	157	267	248	247	206	
TOT PCT	44.0	43.6	11.9	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	4.1	14.6	49.8	27.0	4.5	.0	.0	8.0	100.0	267	
06009	6.5	12.1	41.5	35.9	4.0	.0	.0	9.5	100.0	248	
12015	7.3	13.8	48.7	27.9	2.0	.8	.0	8.8	100.0	247	
18021	6.8	18.0	47.1	25.7	2.4	.0	.0	8.0	100.0	206	
TOT	59	140	452	283	32	2	0	8.9		968	
PCT	6.1	14.5	46.7	29.2	3.3	.2	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.4	.6	2.5	7.8		6.5
NE	.7	.3	1.2	5.0		6.8
E	.5	.2	.3	5.9		7.2
SE	1.5	.4	1.5	6.9		6.4
S	3.9	2.2	4.5	12.4		6.0
SW	3.1	1.9	2.9	5.5		5.3
W	1.8	1.0	2.4	4.3		5.6
NW	2.1	.8	.8	4.9		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	1.0	5.4		5.9
TOT OBS	83	39	85	289	496	6.1
TOT PCT	16.7	7.9	17.1	58.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	MEAN CLOUD COVER										NH <5/8 ANY HGT	TOTAL OBS				
	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	000 149	150 299	300 599	600 999	1000 1999			2000 3499	2500 4999	3000 6499	6500 7999
N	1.4	.6	2.5	7.8	6.5	2.4	.2	.6	.8	.9	2.1	1.7	.3	.4	.6	2.4
NE	.7	.3	1.2	5.0	6.8	2.3	.0	.0	.7	.9	2.0	.3	.0	.1	.0	1.0
E	.5	.2	.3	5.9	7.2	2.3	.0	.4	.9	1.0	1.2	.4	.0	.0	.0	.9
SE	1.5	.4	1.5	6.9	6.4	2.8	.0	.7	.4	2.1	1.2	.9	.0	.2	.1	2.0
S	3.9	2.2	4.5	12.4	6.0	5.9	.0	.5	1.4	2.0	4.0	1.1	.4	.2	.3	7.3
SW	3.1	1.9	2.9	5.5	5.3	3.2	.0	.4	.5	.8	1.6	.5	.1	.0	.5	5.9
W	1.8	1.0	2.4	4.3	5.6	1.5	.0	.2	.6	1.4	1.5	.9	.2	.0	.2	3.1
NW	2.1	.8	.8	4.9	5.8	1.5	.0	.0	.5	1.7	1.6	.3	.1	.2	.0	2.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	.6	1.0	5.4	5.9	3.0	.2	.2	.2	1.6	.4	.0	.2	.2	.2	2.6
TOT OBS	83	39	85	289	496	123	2	14	29	61	77	30	6	6	9	139
TOT PCT	16.7	7.9	17.1	58.3	100.0	24.8	.4	2.8	5.8	12.3	15.5	6.0	1.2	1.2	1.0	28.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	2.6	2.8	3.0	3.0	3.0	3.0	3.0
>5000	2.4	3.7	3.9	4.1	4.1	4.1	4.1	4.1
>3500	6.1	8.1	9.6	10.0	10.0	10.0	10.0	10.0
>2000	13.0	21.3	24.6	25.2	25.4	26.0	26.2	26.2
>1000	17.1	29.7	36.0	37.2	37.4	38.0	38.2	38.2
>600	17.9	32.9	40.9	42.3	42.7	43.3	43.7	43.7
>300	17.9	34.4	43.3	45.1	45.5	46.1	46.5	46.5
>150	17.9	34.4	43.5	45.5	45.9	46.5	46.9	46.9
>0	17.9	35.4	45.7	50.0	52.0	58.5	68.5	71.3
TOTAL	91	180	232	254	264	297	348	362

TOTAL NUMBER OF OBS: 508

PCT FREQ NH <5/8: 28.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.7	3.6	4.9	3.9	3.6	3.4	6.0	7.3	31.3	23.4	534

PERIOD: (PRIMARY) 1937-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.2	.3	.3	.1	.0	.0	.0	.2	1.4	
	NO PCP	1.6	1.6	2.0	2.2	4.8	3.3	1.5	1.1	.0	1.7	19.9	
	TOT %	1.6	1.9	2.2	2.5	5.1	3.4	1.5	1.1	.0	1.9	21.3	
1/2<1	PCP	.2	.0	.0	.1	.2	.2	.0	.0	.0	.0	.6	
	NO PCP	.3	.2	.3	.5	.4	.4	.0	.1	.0	.0	2.2	
	TOT %	.5	.2	.3	.5	.6	.6	.0	.1	.0	.0	2.8	
1<2	PCP	.4	.7	.3	.1	.2	.1	.0	.1	.0	.1	1.9	
	NO PCP	.4	.1	.2	.4	.6	.5	.1	.0	.0	.2	2.5	
	TOT %	.8	.8	.4	.5	.8	.6	.1	.1	.0	.3	4.4	
2<5	PCP	.3	.5	.5	.4	.6	.1	.1	.1	.0	.1	2.6	
	NO PCP	1.0	.8	.4	.5	2.2	.6	.5	.6	.0	.5	7.1	
	TOT %	1.3	1.3	.8	1.0	2.7	.6	.6	.6	.0	.6	9.7	
5<10	PCP	.1	.5	.1	.4	.5	.1	.1	.2	.0	.0	2.0	
	NO PCP	2.9	1.2	2.1	1.7	4.6	3.2	1.6	2.2	.0	1.5	20.9	
	TOT %	3.0	1.7	2.2	2.1	5.1	3.3	1.7	2.4	.0	1.5	22.9	
10+	PCP	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	5.2	2.9	1.8	3.2	9.3	7.1	3.9	2.8	.0	2.4	38.5	
	TOT %	5.2	3.0	1.8	3.2	9.4	7.1	3.9	2.8	.0	2.4	38.9	
TOT OBS													929
TOT PCT													
		12.4	8.8	7.8	9.8	23.7	15.7	7.9	7.2	.0	6.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.5	.7	.3	.5	.6	.6	.3	.0	1.5	5.4	
	4-10	.8	.9	1.0	1.4	2.8	3.0	2.0	.9	.0		12.6	
	11-21	.5	.6	.7	.8	1.7	1.5	.4	.4	.0		6.5	
	22+	.0	.3	.1	.1	.1	.0	.0	.0	.0		.6	
	TOT %	1.7	2.3	2.4	2.6	5.1	5.0	3.0	1.6	.0	1.5	25.2	
1/2<1	0-3	.4	.3	.0	.2	.1	.2	.0	.1	.0	.0	1.2	
	4-10	.0	.0	.2	.2	.4	.3	.0	.1	.0		1.2	
	11-21	.1	.0	.0	.0	.3	.1	.1	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.3	.2	.4	.7	.6	.1	.2	.0	.0	2.8	
1<2	0-3	.1	.0	.2	.2	.0	.3	.0	.1	.0	.5	1.4	
	4-10	.3	.2	.2	.0	.7	.3	.0	.1	.0		1.8	
	11-21	.7	.3	.1	.3	.5	.1	.1	.0	.0		2.2	
	22+	.1	.3	.1	.1	.0	.1	.0	.0	.0		.5	
	TOT %	1.1	.7	.5	.6	1.2	.9	.1	.2	.0	.5	5.9	
2<5	0-3	.1	.2	.0	.0	.6	.2	.1	.0	.0	.6	1.8	
	4-10	.9	1.0	.2	.2	.9	.4	.3	.5	.0		4.5	
	11-21	.7	.1	.1	.6	1.0	.4	.2	.0	.0		3.1	
	22+	.0	.2	.3	.1	.2	.1	.0	.0	.0		.8	
	TOT %	1.7	1.4	.5	.9	2.7	1.2	.6	.6	.0	.6	10.2	
5<10	0-3	.3	.0	.3	.2	.2	.3	.2	.5	.0	1.3	3.2	
	4-10	1.4	.7	.9	.8	1.8	1.7	.8	.8	.0		8.9	
	11-21	.6	.6	.2	.8	2.7	.7	.3	.6	.0		6.5	
	22+	.3	.1	.2	.0	.1	.1	.1	.1	.0		1.1	
	TOT %	2.6	1.4	1.6	1.8	4.7	2.8	1.3	2.1	.0	1.3	19.6	
10+	0-3	.8	.5	.3	1.1	.8	.9	.5	.3	.0	2.1	7.4	
	4-10	2.2	1.3	1.2	1.4	5.3	3.7	1.9	1.4	.0		18.3	
	11-21	1.5	1.1	.3	.4	2.6	2.2	1.3	.7	.0		10.1	
	22+	.3	.0	.0	.0	.1	.0	.0	.1	.0		.4	
	TOT %	4.7	2.9	1.7	2.9	8.8	6.8	3.8	2.4	.0	2.1	36.2	
TOT OBS													949
TOT PCT													
		12.4	8.9	6.9	9.2	23.2	17.3	8.9	7.1	.0	6.0	100.0	

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TABLE 10

AREA 0020 SAKHALIN ISLAND SE
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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	20.7	.0	4.0	4.0	12.0	22.7	6.7	2.0	1.3	2.0	75.3	24.7	150
06009	19.9	1.5	3.7	7.4	12.5	18.4	7.4	1.5	1.5	.7	74.3	25.7	136
12015	26.6	.0	.0	6.5	11.5	11.5	4.3	.7	.7	.7	62.6	37.4	139
18021	31.9	.0	3.2	4.3	11.7	7.4	5.3	.0	1.1	4.3	69.1	30.9	94
TOT	125	2	14	29	62	82	31	6	6	9	366	153	519
PCT	24.1	.4	2.7	5.6	11.9	15.8	6.0	1.2	1.2	1.7	70.5	29.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	25.9	3.4	6.9	8.6	17.9	37.2	290
06009	23.6	1.5	9.2	11.1	17.3	41.3	271
12015	21.0	3.6	4.6	10.3	24.9	35.6	281
18021	27.8	4.0	4.4	11.7	23.8	27.8	223
TOT	260	33	58	110	222	382	1065
PCT	24.4	3.1	5.4	10.3	20.8	35.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	20.4	28.6	41.5	37.4	21.1	147
06009	20.3	27.8	41.4	36.8	21.8	133
12015	27.4	28.1	40.7	25.9	33.3	135
18021	32.3	36.6	58.1	12.9	29.0	93
TOT	124	151	225	151	132	508
PCT	24.4	29.7	44.3	29.7	26.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	1.4	1.4	.0	.0	.0	2	2.9
75/79	.0	.0	.0	.0	.0	.0	1.4	2.9	3	4.3
70/74	.0	.0	.0	.0	.0	1.4	1.4	1.4	3	4.3
65/69	.0	.0	.0	.0	.0	1.4	.0	.0	1	1.4
60/64	.0	2.9	.0	.0	1.4	.0	2.9	.0	5	7.2
55/59	.0	.0	4.3	1.4	.0	.0	7.2	14.5	19	27.5
50/54	.0	.0	1.4	1.4	.0	1.4	11.6	28.1	29	42.0
45/49	.0	.0	.0	.0	.0	.0	1.4	8.7	7	10.1
TOTAL	0	2	4	3	2	3	18	37	69	100.0
PCT	.0	2.9	5.8	4.3	2.9	4.3	26.1	53.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	1.1	1.8	.0	.0	.0	.0
.0	.0	2.5	.4	.0	1.4	.0	.0	.0	.0
1.1	.7	.7	.4	1.1	.0	.0	.4	.0	.0
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0
.0	.0	.0	.4	2.2	3.3	.0	1.4	.0	.0
2.5	1.8	1.1	1.4	6.5	3.6	2.9	.4	.0	7.2
7.6	4.3	11.2	5.8	3.6	3.6	2.5	3.3	.0	.0
.0	1.4	.0	.0	1.4	.0	.0	7.2	.0	.0
11.2	8.3	15.6	8.3	17.4	13.8	5.4	12.7	.0	7.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	74	70	59	50	39	33	58.9	293
06009	84	83	72	59	50	34	32	59.2	274
12015	72	68	65	55	48	36	32	56.0	281
18021	83	79	68	55	45	34	34	55.3	226
TOT	84	77	70	57	47	36	32	57.5	1074

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.7	5.6	5.6	27.8	44.4	83	18		18
06009	.0	15.8	5.3	.0	31.6	47.4	84	19		19
12015	.0	20.0	.0	10.0	20.0	50.0	82	20		20
18021	.0	.0	.0	.0	23.1	76.9	94	13		13
TOT	0	10	2	3	18	37	85	70		70

AUGUST

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1908-1974AREA 0020 SAKHALIN ISLAND SE
48.8N 145.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DFG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	M FOG	NO FOG
330	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4	.1	.3
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.2	6	.1	.6
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.2	6	.0	.7
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.1	.2	.2	.0	13	.3	1.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.3	.3	.3	.2	.2	.0	14	.3	1.2
11/13	.0	.0	.0	.0	.0	.2	.1	.8	1.0	.1	.5	.2	.0	.0	27	1.1	1.8
9/10	.0	.0	.0	.0	.0	.0	.3	.5	1.1	.4	.1	.1	.1	.0	25	.8	2.0
7/8	.0	.0	.0	.0	.2	.3	.5	.8	2.0	.9	.9	.0	.0	.0	31	1.3	4.2
6	.0	.0	.0	.0	.0	.2	.3	.4	.4	.1	.0	.0	.0	.0	18	.2	1.7
5	.0	.0	.0	.2	.3	.5	1.1	1.8	2.5	.5	.8	.0	.0	.0	72	1.8	6.0
4	.0	.1	.0	.1	.0	.4	2.3	3.0	2.1	.8	.3	.0	.0	.0	84	3.2	6.0
3	.0	.0	.0	.0	.2	.2	.5	1.3	1.1	.9	.0	.0	.0	.0	39	1.0	3.3
2	.0	.3	.0	.0	1.0	1.4	4.5	3.0	3.3	.7	.3	.0	.0	.0	133	4.9	9.6
1	.0	.0	.0	.0	.1	.7	2.0	1.5	.9	.0	.0	.0	.0	.0	47	1.1	4.0
0	.0	.0	.0	.0	.4	4.7	4.5	2.7	2.9	.3	.5	.0	.0	.0	146	4.5	11.4
-1	.0	.1	.0	.0	.2	1.3	.9	1.4	.4	.1	.0	.0	.0	.0	41	.9	3.6
-2	.0	.0	.0	.0	.7	2.6	2.5	1.8	1.6	.4	.1	.0	.0	.0	90	2.5	7.3
-3	.0	.0	.0	.0	.0	.1	.3	.9	.1	.1	.0	.0	.0	.0	14	.4	1.1
-4	.0	.0	.0	.1	.5	.4	.5	1.3	.4	.0	.0	.0	.0	.0	31	.8	2.6
-5	.0	.0	.0	.0	.3	.5	.7	.1	.2	.0	.0	.0	.0	.0	17	.5	1.3
-6	.0	.0	.0	.0	.3	.5	.2	.1	.0	.0	.0	.0	.0	.0	11	.1	1.1
-7/-8	.0	.0	.0	.1	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	10	.2	.9
-9/-10	.0	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	6	.1	.3
-11/-13	.0	.1	.0	.1	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	6	.2	.4
-14/-16	.0	.0	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
-17/-19	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	6	2	6	46	141	202	201	191	64	7	6	8	6	919	243	676
PCT	.1	.7	.2	.7	5.0	15.3	22.0	21.9	20.8	7.0	4.1	.8	.9	.7	100.0	26.4	73.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	1.3	.3	.0	.0	.0	2.5	.0	1.6	.0	.0	.0	.0	1.6
1-2	.7	1.7	.0	.0	.0	.0	3.1	.0	1.3	1.4	.0	.0	.0	2.6
3-4	.0	.5	1.3	.2	.0	.0	2.0	.0	.9	.9	.3	.0	.0	2.0
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.5	.6	.1	.0	.0	1.2
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.3	.3	.0	.0	.5	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	2.4	5.9	1.1	.0	.0	11.1	.0	4.2	3.0	.3	.3	.0	7.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	.9	.0	.0	.0	.0	1.4	.6	1.6	.0	.0	.0	.0	2.2
1-2	.0	2.2	.3	.0	.0	.0	2.4	.0	2.4	2.0	.0	.0	.0	4.5
3-4	.0	.5	.7	.0	.0	.0	1.1	.0	.3	1.3	.3	.0	.0	1.9
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.3	.3	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	1.2	.5	.2	.0	5.9	.6	4.3	3.0	.5	.0	.0	10.5

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.3	3.4	.0	.0	.0	.0	4.7	.3	2.6	.0	.0	.0	.0	2.8	
1-2	.0	4.9	5.1	.0	.0	.0	10.0	.3	1.8	2.8	.0	.0	.0	4.9	
3-4	.0	1.2	5.1	.8	.0	.0	7.1	.0	.4	2.8	.0	.0	.0	3.2	
5-6	.0	.0	3.4	.0	.0	.0	3.4	.0	.0	1.1	.3	.0	.0	1.3	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	9.4	13.9	.8	.0	.0	25.4	.5	4.8	7.0	.3	.0	.0	12.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.6	.0	.0	.0	.0	1.8	.4	1.5	.0	.0	.0	.0	1.9	
1-2	.2	2.0	2.2	.0	.0	.0	4.4	.1	2.2	.2	.0	.0	.0	2.5	
3-4	.0	.7	.9	.0	.0	.0	1.6	.0	.9	.3	.1	.0	.0	1.3	
5-6	.0	.0	.8	.3	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	1.1	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.9	.1	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.1	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.3	4.2	.3	.0	.0	9.2	.5	4.8	3.3	.2	.0	.0	8.8	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.9	14.4	.3	.0	.0	.0	27.6	
1-2	1.3	17.3	15.7	.0	.0	.0	34.4	
3-4	.0	5.5	13.4	1.6	.0	.0	20.5	
5-6	.0	.5	10.2	.8	.0	.0	11.5	
7	.0	.0	2.1	.5	.0	.0	2.6	
8-9	.0	.3	1.0	.5	.3	.0	2.1	
10-11	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.3	.0	.3	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.2	38.1	43.3	3.9	.5	.0	100.0	381

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	19.3	15.1	6.1	1.3	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	3
6-7	.0	1.7	3.6	3.4	1.1	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
8-9	.0	.4	1.7	.4	1.7	1.3	.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
10-11	.0	2.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	2
12-13	.0	.0	1.3	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
>13	.0	.0	.0	.2	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	11.1	7.8	5.9	3.6	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	2
TOTAL	63	153	135	67	24	21	6	6	1	0	0	0	0	0	0	0	0	0	0	476	3
PCT	13.2	32.1	28.4	14.1	5.0	4.4	1.3	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 143.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	16.9	.0	.0	.0	.0	.0	.0	16.9	1.6	.0	7.8	.0	.0	.0	73.7
NE	13.2	2.6	4.6	.0	.0	.0	.0	20.5	1.7	.0	11.2	.0	.0	1.3	63.3
E	9.1	1.5	6.6	.0	.0	.0	.0	17.2	7.3	.0	9.5	.0	.0	.0	66.1
SE	15.0	.0	7.5	.0	.0	.0	.0	21.9	2.3	.0	8.6	.0	.0	.0	67.1
S	10.7	.7	2.3	.0	.0	.0	.0	13.3	1.2	.0	9.6	.7	.5	.0	74.8
SW	3.6	.0	1.0	.0	.0	.0	.0	4.5	1.0	.0	9.5	.0	.2	.0	84.8
W	.8	.0	.0	.0	.0	.0	.0	.8	1.3	.0	5.5	.0	.0	.0	92.4
NW	4.5	.0	.0	.0	.0	.0	.0	4.5	2.2	.0	6.7	.0	.0	.0	86.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	.0	13.0	.0	.0	.0	78.3
TOT PCT	9.4	.6	2.8	.0	.0	.0	.0	12.6	2.0	.0	9.0	.1	.1	.1	75.9
TOT OBS:	690														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	8.2	1.0	2.9	.0	.0	.0	.0	12.0	2.9	.0	12.0	.5	.5	.0	72.1
06009	7.8	.6	1.1	.0	.0	.0	.0	9.5	1.1	.0	8.9	.0	.0	.0	80.4
12015	7.4	.5	2.6	.0	.0	.0	.0	10.1	3.7	.0	6.3	.0	.0	.5	79.4
18021	14.4	.0	3.8	.0	.0	.0	.0	18.1	.6	.0	8.1	.0	.6	.0	72.5
TOT PCT	9.2	.5	2.6	.0	.0	.0	.0	12.2	2.2	.0	9.0	.1	.3	.1	76.1
TOT OBS:	736														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	3.1	2.4	1.2	.3	.0		8.2	13.0		8.3	14.7	4.9	8.1	5.6	7.5	7.2	14.9
NE	1.0	4.5	4.4	1.6	.2	.0		11.6	12.6		9.1	19.6	7.0	11.3	14.1	11.9	13.5	9.6
E	.5	4.0	3.1	1.2	.2	.0		9.0	13.1		11.9	7.1	5.3	10.1	11.4	7.9	6.0	10.5
SE	.7	5.9	4.0	2.1	.0	.0		12.6	13.0		11.9	13.4	13.1	15.7	11.6	11.9	12.9	11.4
S	1.4	10.5	10.0	2.0	.0	.2		24.1	12.1		22.8	19.6	33.5	17.7	21.9	24.6	23.0	26.3
SW	1.5	7.3	4.9	1.4	.6	.0		15.4	12.3		14.7	12.5	18.0	12.1	15.0	18.3	17.2	13.2
W	1.7	3.9	2.0	1.1	.1	.2		9.0	11.2		9.1	2.7	8.3	12.9	13.4	7.9	9.2	4.4
NW	.9	3.3	2.0	.9	.2	.0		7.2	11.6		8.1	4.9	8.0	8.9	4.5	8.3	7.5	7.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0		4.0	5.4	1.9	3.2	2.7	1.6	3.4	1.8
TOT OBS	78	284	215	77	10	2	666		12.0		126	56	103	62	112	63	87	57
TOT PCT	11.7	42.6	32.3	11.6	1.5	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.9	3.0	1.2	1.1	.0		8.2	13.0	10.3	6.1	6.3	10.2	
NE	3.6	4.7	2.7	.6	.0		11.6	12.6	12.4	8.6	13.3	12.0	
E	2.3	4.1	2.0	.5	.2		9.0	13.1	10.4	7.1	10.1	7.8	
SE	2.6	5.6	4.2	.3	.0		12.6	13.0	12.4	14.1	11.7	12.3	
S	5.2	13.1	3.5	.1	.2		24.1	12.1	21.8	27.6	22.9	24.3	
SW	4.1	8.1	2.0	.8	.3		15.4	12.3	14.0	15.8	16.1	13.6	
W	3.6	3.6	1.6	.1	.2		9.0	11.2	7.1	10.0	11.4	7.3	
NW	2.4	3.3	.9	.6	.0		7.2	11.6	7.1	8.3	5.9	7.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.0						3.0	.0	4.4	2.4	2.3	2.8	
TOT OBS	197	303	134	27	5	666		12.0	182	165	175	144	
TOT PCT	29.6	45.5	20.1	4.1	.8		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.4	8.8	44.0	29.7	11.0	1.6	.5	11.7	100.0	182
06009	2.4	9.7	43.0	30.3	11.5	3.0	.0	12.0	100.0	165
12015	2.3	10.3	40.6	37.1	9.7	.0	.0	11.6	100.0	175
18021	2.8	5.6	43.1	31.9	14.6	1.4	.7	12.9	100.0	144
TOT	20	38	284	215	77	10	2	12.0		666
PCT	3.0	8.7	42.6	32.3	11.6	1.5	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.0	2.5	3.7		6.3
NE	1.3	.3	2.7	5.1		6.1
E	1.2	.3	2.7	4.6		6.2
SE	1.8	.9	3.3	5.2		6.0
S	5.9	2.2	6.3	9.1		5.3
SW	6.8	2.2	4.3	3.1		4.0
W	7.0	.8	1.8	.9		2.6
NW	3.6	2.0	2.0	1.1		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	.5	1.0		3.5
TOT OBS	122	36	103	133	396	4.9
TOT PCT	30.8	9.1	26.0	34.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.4	.6	.8	1.1	1.3	.9	.3	.0	.0	1.9	
.7	.3	.1	1.3	2.0	2.3	.5	.0	.0	.1	2.0	
.9	.0	.7	.4	.8	3.2	.3	.0	.0	.4	2.2	
1.0	.0	.3	1.1	1.1	3.2	.9	.1	.0	.3	3.2	
1.4	.4	.7	2.0	1.8	4.7	1.8	.4	1.0	.4	9.0	
1.1	.3	.0	.1	1.4	2.0	.3	.0	1.0	.8	9.3	
.7	.0	.0	.0	.7	.9	.0	.0	.0	.0	8.2	
.6	.1	.1	.0	.7	.9	.3	.0	.3	.0	5.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.0	.0	.0	.8	.5	.0	.0	.0	.0	2.5	
27	6	10	22	41	75	20	3	9	8	175	
6.8	1.5	2.5	5.6	10.4	18.9	5.1	.8	2.3	2.0	44.2	396 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	3.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0
>5000	3.5	4.4	4.7	4.7	4.7	4.7	4.7	4.7
>3500	7.2	9.8	10.0	10.0	10.0	10.0	10.0	10.0
>2000	17.0	27.0	29.1	29.3	29.3	29.3	29.5	29.5
>1000	20.5	34.9	39.1	40.2	40.5	40.5	40.7	40.9
>600	22.1	38.8	44.2	45.6	45.8	45.8	46.0	46.3
>300	22.3	39.3	45.6	47.4	47.9	47.9	48.1	48.4
>150	22.8	40.5	47.0	48.8	49.3	49.3	49.5	49.8
>0	23.3	41.4	49.1	51.6	53.0	53.5	55.1	56.0
TOTAL	100	178	211	222	228	230	237	241

TOTAL NUMBER OF OBS: 430

PCT FREQ NH <5/8: 44.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.9	7.0	8.7	4.6	5.0	6.1	7.9	10.3	26.6	5.9	458

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.4	.0	.0	.3	.3	.0	.0	.0	.0	.1	1.3
	NO PCP	.4	.7	.4	.6	.9	1.0	.1	.4	.0	.1	.7	4.7
	TOT %	.7	1.1	.4	.6	1.2	1.3	.1	.4	.0	.1	6.0	
1/2<1	PCP	.0	.1	.2	.3	.1	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.8	.5	.8	.3	.7	.3	.0	.0	.1	1.5	
	TOT %	.0	.1	.7	.3	.4	.7	.3	.0	.0	.1	2.2	
1<2	PCP	.0	.4	.0	.7	.2	.3	.0	.0	.0	.0	1.6	
	NO PCP	.2	.1	.1	.8	.3	.4	.0	.8	.0	.0	1.2	
	TOT %	.2	.5	.1	.7	.5	.7	.0	.8	.0	.0	2.8	
2<5	PCP	.6	.8	.6	.7	1.1	.1	.1	.1	.0	.1	4.2	
	NO PCP	.3	.9	.7	.7	.8	.3	.1	.1	.0	.0	3.9	
	TOT %	.9	1.6	1.3	1.4	1.9	.4	.2	.2	.0	.1	8.2	
5<10	PCP	.6	.5	.9	1.1	1.1	.8	.0	.2	.0	.1	4.5	
	NO PCP	2.3	2.6	2.7	3.8	5.4	3.2	1.5	1.3	.0	.6	23.5	
	TOT %	3.0	3.1	3.5	4.9	6.4	3.3	1.5	1.6	.0	.7	28.0	
10+	PCP	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	4.5	4.5	3.6	4.6	11.6	9.3	6.5	5.9	.0	2.2	52.6	
	TOT %	4.6	4.6	3.6	4.6	11.7	9.3	6.5	5.9	.0	2.2	52.9	
TOT OBS		9.3	11.0	9.7	12.5	22.1	15.2	8.7	8.2	.0	3.4	100.0	686
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.4	.0	.0	.2	.2	.3	.1	.0	.2	1.7	
	4-10	.2	.3	.3	.8	1.6	1.2	.6	.6	.0		5.6	
	11-21	.3	.3	.0	.2	1.1	.6	.0	.2	.0		2.7	
	22+	.2	.2	.0	.2	.3	.4	.1	.0	.0		1.2	
	TOT %	1.1	1.2	.3	1.2	3.2	2.4	1.0	.8	.0	.2	11.2	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.3	
	4-10	.0	.0	.2	.0	.3	.0	.3	.0	.0		.8	
	11-21	.0	.0	.1	.8	.1	.2	.0	.0	.0		.5	
	22+	.0	.1	.5	.2	.0	.0	.0	.0	.0		.8	
	TOT %	.0	.1	.8	.3	.4	.2	.3	.0	.0	.2	2.3	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	.5	
	4-10	.0	.3	.0	.1	.5	.2	.0	.0	.0		1.1	
	11-21	.0	.0	.1	.5	.1	.8	.0	.0	.0		.8	
	22+	.0	.2	.0	.2	.3	.5	.0	.0	.0		1.2	
	TOT %	.1	.5	.1	.8	.9	.8	.0	.0	.0	.3	3.5	
2<5	0-3	.0	.0	.0	.0	.0	.2	.3	.0	.0	.2	.6	
	4-10	.0	.8	.5	.4	.8	.3	.0	.0	.0		2.7	
	11-21	.3	1.3	.5	.2	1.3	.5	.1	.2	.0		4.3	
	22+	.4	.5	.7	.9	.3	.2	.1	.2	.0		3.2	
	TOT %	.7	2.5	1.7	1.5	2.4	1.1	.5	.3	.0	.2	10.8	
5<10	0-3	.3	.0	.0	.1	.4	.2	.4	.2	.0	.8	2.3	
	4-10	1.1	1.6	1.7	1.9	1.9	1.2	.5	.9	.0		10.8	
	11-21	.7	1.0	1.3	2.0	2.8	.8	.3	.2	.0		9.0	
	22+	.6	.5	.0	.5	1.3	.4	.3	.8	.0		3.5	
	TOT %	2.7	3.0	3.0	4.4	6.3	2.6	1.4	1.3	.0	.8	25.5	
10+	0-3	.4	.5	.5	.5	.8	1.0	.7	.6	.0	1.5	6.5	
	4-10	1.8	1.5	1.5	2.5	5.6	4.3	2.6	1.9	.0		21.7	
	11-21	1.1	1.9	1.0	1.0	4.7	2.2	1.5	1.5	.0		14.9	
	22+	.4	.3	.1	.2	.7	.6	1.0	.9	.0		3.5	
	TOT %	3.7	4.2	3.0	4.1	11.2	8.1	5.8	4.9	.0	1.5	46.7	
TOT OBS		8.3	11.6	8.8	12.5	24.4	15.2	9.0	7.3	.0	3.0	100.0	658
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	6.4	2.1	2.8	2.8	12.1	20.6	5.7	1.4	2.8	2.1	58.9	41.1	141
06009	7.0	1.8	.9	7.9	14.0	21.9	5.3	.0	1.8	1.8	62.3	37.7	114
12015	7.8	.0	2.9	3.9	9.8	16.7	3.9	.0	1.0	1.0	47.1	52.9	102
18021	5.8	1.2	2.3	7.0	7.0	15.1	5.8	1.2	2.3	2.3	50.0	50.0	86
TOT	30	6	10	23	49	84	23	3	9	8	245	198	443
PCT	6.8	1.4	2.3	5.2	11.1	19.0	5.2	.7	2.0	1.8	55.3	44.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	10.7	.9	4.5	9.8	25.4	48.7	224
06009	8.2	2.1	3.1	12.3	21.0	53.3	195
12015	6.4	3.4	3.0	10.8	25.6	50.7	203
18021	13.9	2.3	4.0	9.2	28.9	41.6	173
TOT	77	17	29	84	200	388	795
PCT	9.7	2.1	3.6	10.6	25.2	48.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	5.8	13.0	25.4	37.0	37.7	138
06009	7.1	10.6	26.5	38.9	34.5	113
12015	8.2	11.3	18.6	29.9	51.5	97
18021	4.9	9.8	20.7	31.7	47.6	82
TOT	28	49	100	150	180	430
PCT	6.5	11.4	23.3	34.9	41.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	3.6	.0	.0	.0	.0	.0	1	3.6
60/64	.0	.0	.0	.0	.0	3.6	3.6	.0	2	7.1
55/59	.0	.0	3.6	.0	.0	.0	3.6	3.6	3	10.7
50/54	.0	.0	3.6	.0	.0	10.7	25.0	25.0	18	64.3
45/49	.0	.0	.0	.0	3.6	.0	7.1	.0	3	10.7
30/34	.0	.0	.0	.0	.0	.0	.0	3.6	1	3.6
TOTAL	0	0	3	0	1	4	11	9	28	100.0
PCT	.0	.0	10.7	.0	3.6	14.3	39.3	32.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	3.6	.0	.0	.0	.0	.0
60/64	.0	.0	2.7	.9	.0	.0	3.6	.0	.0
55/59	.0	.0	3.6	3.6	2.7	.9	.0	.0	.0
50/54	13.4	3.6	17.9	11.6	2.7	7.1	2.7	5.4	.0
45/49	.0	3.6	.0	.0	.0	.0	.0	3.6	.0
30/34	.0	.0	.0	3.6	.0	.0	.0	.0	.0
TOTAL	13.4	7.1	24.1	23.2	5.4	8.0	6.3	6.7	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	73	70	66	57	47	38	32	56.5	223
06009	76	70	66	58	49	46	45	57.7	191
12015	70	65	63	55	46	39	32	54.3	204
18021	77	70	63	54	45	43	41	53.8	173
TOT	77	70	65	55	46	41	32	55.6	791

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.0	.0	22.2	33.3	44.4	86	9
06009	.0	20.0	.0	.0	40.0	40.0	80	5
12015	.0	.0	14.3	28.6	28.6	28.6	84	7
18021	.0	28.6	.0	.0	57.1	14.3	77	7
TOT	0	3	1	4	11	9	82	28

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

TABLE 17

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT FOG	# FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.1	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3	.0	.0	4	.1	.4
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.4	.0	.4	.1	.0	8	.1	1.0
9/10	.0	.0	.0	.0	.0	.0	.7	.1	.9	.1	.0	.0	.0	14	.0	2.0
7/8	.0	.0	.0	.0	.0	.3	.4	1.2	1.2	.6	.3	.0	.0	27	.6	3.4
6	.0	.0	.0	.0	.0	.4	.5	.7	.3	.1	.0	.0	.0	15	.3	1.9
5	.0	.0	.0	.0	.3	.3	1.2	1.9	2.5	.3	.0	.0	.0	46	.9	5.9
4	.0	.0	.0	.0	.3	.7	1.1	2.2	2.8	.7	.0	.0	.0	54	.6	7.3
3	.0	.0	.0	.0	.6	.3	1.5	1.0	.9	.1	.0	.0	.0	30	.1	4.4
2	.0	.0	.0	.0	.1	2.2	3.8	2.3	2.3	.0	.1	.0	.0	75	.9	10.1
1	.0	.0	.0	.0	.1	1.0	1.0	1.3	.6	.1	.0	.0	.0	29	.3	4.0
0	.0	.0	.0	.0	.9	4.0	4.5	3.7	2.6	.3	.0	.0	.0	109	1.9	14.1
-1	.0	.0	.0	.0	.4	1.8	.7	.4	.0	.0	.0	.0	.0	23	.3	3.1
-2	.0	.0	.0	.1	.9	2.8	3.7	2.6	1.3	.1	.0	.0	.0	79	1.3	10.2
-3	.0	.0	.0	.0	.3	1.5	1.0	.1	.1	.0	.0	.0	.0	21	.3	2.8
-4	.0	.0	.0	.0	3.1	2.5	2.8	1.3	.6	.0	.0	.0	.0	70	.4	9.8
-5	.0	.0	.0	.0	1.3	1.2	1.0	1.3	.1	.0	.0	.0	.0	34	.4	4.5
-6	.0	.0	.0	.0	.3	.4	.6	.0	.0	.0	.0	.0	.0	9	.0	1.3
-7/-8	.0	.0	.0	.3	.9	.1	.4	.1	.1	.0	.0	.0	.0	14	.1	1.9
-9/-10	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	4	.0	.6
-11/-13	.0	.0	.3	.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	9	.0	1.3
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
-26/-30	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	1	3	7	67	122	178	147	117	24	12	2	1	683	62	621
PCT	.3	.1	.4	1.0	9.8	17.9	26.1	21.5	17.1	3.5	1.8	.3	.1	100.0	9.1	90.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	.0	.3	.0	.0	.0	.0	.3	1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.8	.2	.0	.0	.0	1.1	1-2	.0	1.7	1.7	.0	.0	.0	3.4
3-4	.0	.2	.3	.3	.0	.0	.9	3-4	.0	.3	3.3	.1	.0	.0	3.7
5-6	.0	.3	.7	.3	.0	.0	1.1	5-6	.0	.0	.3	.5	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.3	.3	.0	.0	.0	.7
8-9	.0	.0	.6	.2	.0	.0	.8	8-9	.0	.3	.3	.7	.0	.0	1.4
10-11	.0	.0	.2	.9	.0	.0	1.1	10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.2	.6	.0	.8	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	2.0	2.0	.6	.0	6.1	TOT PCT	.0	3.5	6.0	1.6	.3	.0	11.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	.0	1.1	.0	.0	.0	.0	1.1	1	.0	1.3	.3	.0	.0	.0	1.6
1-2	.0	1.9	2.4	.0	.0	.0	4.3	1-2	.0	1.6	1.0	.0	.0	.0	2.5
3-4	.0	.0	.3	.2	.0	.0	.6	3-4	.0	.7	.6	.4	.0	.0	1.6
5-6	.0	.0	.2	.5	.0	.0	.7	5-6	.0	.0	1.1	.4	.0	.0	1.6
7	.0	.0	.7	.2	.0	.0	.9	7	.0	.0	.3	1.4	.0	.0	1.7
8-9	.0	.0	.7	.9	.0	.0	1.6	8-9	.0	.1	1.0	.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.3	.0	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.3	.0	.3	13-16	.0	.0	.0	.0	.0	.0	.3
17-19	.0	.0	.3	.0	.0	.0	.3	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	4.6	1.9	.3	.0	9.8	TOT PCT	.0	3.9	4.7	2.3	.0	.0	10.9

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.3	.7	.0	.0	.0	3.3	.4	2.6	.7	.0	.0	.0	3.7
1-2	.0	4.8	3.4	.0	.0	.0	8.2	.0	1.7	.8	.0	.0	.0	2.5
3-4	.0	1.2	5.6	.2	.0	.0	7.0	.3	1.1	2.4	.0	.0	.0	3.8
5-6	.0	.7	2.2	.9	.0	.0	3.8	.0	.3	.3	.0	.0	.0	.7
7	.0	.0	1.8	1.2	.0	.0	3.0	.0	.0	.2	.4	.0	.0	.6
8-9	.0	.2	.3	.2	.0	.0	.8	.3	.0	.0	.3	.0	.0	.7
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.7	1.1	.3	.0	2.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	9.2	14.3	3.0	.0	.3	27.1	1.1	5.7	5.1	2.2	.7	.0	14.8

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.9	1.2	.0	.0	.0	.0	2.1	.0	1.4	.0	.0	.0	.0	1.4	97.0
1-2	.2	1.5	.9	.0	.0	.0	2.6	.1	.8	.7	.0	.0	.0	1.6	
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	1.7	.3	.0	.0	2.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
7	.0	.0	.2	.7	.0	.0	.9	.0	.0	.4	.7	.0	.0	1.1	
8-9	.0	.0	.3	.7	.0	.3	1.3	.0	.0	.1	.4	.3	.0	.8	
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	2.7	2.7	1.8	.2	.3	8.9	.1	2.2	3.5	1.6	.4	.0	7.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	11.1	1.6	.0	.0	.0	17.4	305
1-2	.3	14.8	11.1	.0	.0	.0	26.2	
3-4	.3	3.6	15.1	1.6	.0	.0	20.7	
5-6	.0	1.0	5.6	2.6	.0	.0	9.2	
7	.0	.3	3.9	4.6	.0	.0	8.9	
8-9	.3	.7	3.3	3.6	.3	.3	8.5	
10-11	.0	.0	1.6	3.0	.3	.0	4.9	
12	.0	.3	.0	.3	.3	.0	1.0	
13-16	.0	.0	.3	.3	1.3	.3	2.3	
17-19	.0	.0	.3	.0	.3	.0	.7	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	31.8	43.0	16.4	2.6	.7	100.0	

PERIOD: (OVER-ALL) 1966-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	10.7	11.7	6.1	2.8	2.1	.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	4
6-7	.0	.7	1.2	4.9	3.7	1.9	1.6	.5	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	7
8-9	.0	.5	2.3	1.2	1.6	1.2	.5	.5	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
10-11	.0	1.9	.0	.7	.9	1.2	.0	.0	.9	.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	27	9
12-13	.0	.0	.5	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.2	.2	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	7.2	4.7	8.9	2.8	4.2	2.1	1.4	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
TOTAL	31	79	105	70	58	37	18	10	14	4	1	0	0	2	0	0	0	0	0	0	429	5
PCT	7.2	18.4	24.5	16.3	13.5	8.6	4.2	2.3	3.3	.9	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1907-1974AREA 0020 SAKHALIN ISLAND SE
48.8N 145.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	8.4	1.3	.0	.0	8.7	.0	.0	17.1	3.2	.0	5.8	.0	.0	.0	73.9
NE	13.6	.0	.0	.0	.0	.0	.0	13.6	1.4	.0	.0	.0	.0	.7	84.3
E	16.5	.0	12.6	.0	.0	.0	.0	29.1	4.7	.0	.0	.0	.0	5.5	60.6
SE	14.5	2.2	6.5	.0	.0	.0	.0	23.1	4.3	.0	4.8	4.3	.0	2.2	61.4
S	3.4	.0	1.3	.0	.0	.0	.0	4.7	.0	.0	7.4	.0	1.0	.0	86.9
SW	3.1	.0	1.0	.0	.0	.0	.0	4.1	1.0	1.0	.7	.0	.2	.0	93.0
W	.9	.0	.9	.0	.0	.0	.0	1.7	2.6	.0	1.1	.0	.0	.0	94.6
NW	2.7	.0	.0	.0	4.7	.0	.0	7.3	8.4	.0	.7	.0	.0	.9	82.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.4	.3	1.6	.0	2.0	.0	.0	9.1	3.3	.2	2.4	.3	.2	.7	83.9
TOT OBS:	614														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.2	.5	1.6	.0	2.1	.0	.0	7.9	4.7	.0	2.6	.5	.0	1.0	83.2
06009	3.0	.6	1.2	.0	1.2	.0	.0	6.1	1.8	.0	2.4	.6	.6	.0	88.4
12015	9.0	.0	.6	.0	2.6	.0	.0	12.3	2.6	.6	2.6	.0	.0	.6	81.3
18021	7.5	.0	5.3	.0	1.5	.0	.0	14.3	3.8	.0	2.3	.0	.0	.8	78.9
TOT PCT TOT OBS:	5.8 643	.3	2.0	.0	1.9	.0	.0	9.8	3.3	.2	2.5	.3	.2	.6	83.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.1	6.4	2.5	.5	.0		13.0	16.4		10.1	11.1	15.2	17.4	15.1	7.9	13.2	13.2
NE	.5	1.5	2.9	.9	.2	.0		6.0	15.6		3.7	7.4	5.1	4.5	7.4	3.9	10.0	7.9
E	.7	1.2	1.3	1.7	.2	.0		5.1	16.1		5.3	3.7	1.6	9.1	7.4	.0	7.1	7.9
SE	.2	2.2	2.9	.9	.2	.0		6.4	15.1		7.5	3.7	6.7	4.5	5.2	2.6	8.9	6.6
S	.5	3.8	5.1	2.9	.3	.0		12.7	16.3		15.3	3.7	11.6	9.8	14.4	19.1	8.2	12.5
SW	1.1	5.7	7.2	2.8	.0	.0		16.8	13.7		16.0	15.7	18.1	12.9	14.6	23.0	17.1	19.7
W	.7	6.9	7.2	3.6	1.1	.0		19.5	15.7		18.4	17.6	19.9	24.2	16.8	31.6	20.7	12.5
NW	.8	6.0	6.4	4.6	.5	.0		18.4	15.4		22.2	37.0	18.3	17.4	14.1	11.8	13.2	19.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		1.5	.0	3.6	.0	5.0	.0	1.4	.0
TOT OBS	40	169	218	111	17	0	555		15.1		136	27	112	33	101	38	70	38
TOT PCT	7.2	30.5	39.3	20.0	3.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.7	5.3	4.6	1.4	.0		13.0	16.4	10.3	15.7	13.1	13.2	
NE	1.0	1.9	2.6	.5	.0		6.0	15.6	4.3	5.0	6.5	9.3	
E	1.6	1.0	1.8	.7	.0		5.1	16.1	5.1	3.3	5.4	7.4	
SE	1.0	2.4	2.7	.2	.0		6.4	15.1	6.9	6.2	4.5	8.1	
S	1.9	4.7	4.1	1.8	.1		12.7	16.3	13.3	11.2	15.6	9.7	
SW	3.6	6.8	6.0	.5	.0		16.8	13.7	16.0	16.9	16.9	18.1	
W	3.5	8.1	5.4	2.2	.4		19.5	15.7	18.3	20.9	20.9	17.8	
NW	3.4	7.3	5.6	1.8	.2		18.4	15.4	24.7	18.1	13.5	15.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.2						2.2	.0	1.2	2.8	3.6	.9	
TOT OBS	110	209	182	50	4	555		15.1	163	145	139	108	
TOT PCT	19.8	37.7	32.8	9.0	.7		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00&03	1.2	3.7	25.8	43.6	20.9	4.9	.0	16.3	100.0	163
06&09	2.8	2.8	35.9	37.9	17.2	3.4	.0	14.7	100.0	145
12&15	3.6	6.5	30.9	36.7	20.9	1.4	.0	14.6	100.0	139
18&21	.9	8.3	29.6	38.0	21.3	1.9	.0	14.6	100.0	108
TOT	12	28	169	218	111	17	0	15.1		555
PCT	2.2	5.0	30.5	39.3	20.0	3.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.2	4.8	5.4		5.9
NE	.8	.5	1.1	2.9		6.0
E	1.1	.2	1.1	2.1		5.6
SE	1.6	.5	1.5	3.6		5.7
S	4.2	1.7	4.2	3.2		4.5
SW	5.5	2.9	5.7	2.1		3.9
W	5.3	3.5	7.9	2.2		4.5
NW	3.3	3.8	6.1	4.7		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.1	.0	.7	.7		2.9
TOT OBS	111	56	139	114	419	4.8
TOT PCT	26.5	13.4	33.2	27.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.0	.5	3.7	3.4	.7	.7	.0	.0	3.3	
NE	.2	.0	.0	.7	1.2	1.1	.2	.0	.2	.0	1.6	
E	.2	.0	.0	.0	1.4	1.1	.2	.0	.0	.2	1.3	
SE	.4	.0	.0	.2	1.7	1.6	.8	.1	.0	.2	2.1	
S	.6	.0	.0	.0	1.3	2.3	.8	.2	.0	.6	7.5	
SW	.2	.2	.0	.2	1.2	3.0	1.1	.0	.0	.6	9.7	
W	.5	.0	.0	.0	1.9	3.8	1.1	.2	.4	.7	10.4	
NW	.5	.0	.2	.5	1.8	4.8	1.0	.8	.3	.0	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.0	.2	.2	.0	.0	.2	3.4	
TOT OBS	16	1	1	9	60	89	26	8	4	11	194	
TOT PCT	3.8	.2	.2	2.1	14.3	21.2	6.2	1.9	1.0	2.6	46.3	419

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.7	3.4	3.4	3.4	3.4	3.4	3.4
>5000	2.7	4.3	5.2	5.2	5.2	5.2	5.2	5.2
>3500	6.6	10.2	11.6	11.6	11.6	11.6	11.6	11.6
>2000	18.8	28.6	32.0	32.9	32.9	32.9	32.9	32.9
>1000	24.5	39.5	45.1	46.9	46.9	46.9	46.9	46.9
>600	24.9	41.0	47.4	49.2	49.2	49.2	49.2	49.2
>300	25.2	41.3	47.8	49.7	49.7	49.7	49.7	49.7
>150	25.2	41.3	48.1	49.9	49.9	49.9	49.9	49.9
>0	25.9	43.1	51.0	52.8	53.3	53.5	54.2	54.2
TOTAL	114	190	225	233	235	236	239	239

TOTAL NUMBER OF OBS: 441

PCT FREQ NH <5/8: 45.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	17.9	5.1	8.5	6.6	6.6	7.2	11.4	9.9	24.3	3.2	473

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.0	.4	.3	.0	.0	.2	.0	.0	1.0	
	TOT %	.2	.0	.0	.4	.4	.0	.0	.2	.0	.0	1.1	
1/2<1	PCP	.1	.0	.0	*	.1	.0	.0	.2	.0	.0	.5	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.0	.0	.2	.1	.0	.0	.2	.0	.0	.7	
1<2	PCP	.7	.1	.2	.2	.1	*	.2	.4	.0	.0	2.0	
	NO PCP	.0	*	.1	.0	.0	.2	.0	.0	.0	.0	.3	
	TOT %	.7	.1	.4	.2	.1	.2	.2	.4	.0	.0	2.3	
2<5	PCP	1.0	.3	.7	.3	.0	.0	.0	.3	.0	.0	2.6	
	NO PCP	1.4	1.0	.3	.4	.2	.7	.7	.9	.0	.0	5.5	
	TOT %	2.4	1.3	.9	.7	.2	.7	.7	1.2	.0	.0	8.2	
5<10	PCP	.3	.2	.4	.7	.2	.5	.2	.4	.0	.0	2.8	
	NO PCP	3.0	1.8	.9	1.8	3.4	3.7	4.2	3.6	.0	1.0	23.5	
	TOT %	3.3	2.0	1.4	2.5	3.6	4.2	4.3	4.0	.0	1.0	26.3	
10+	PCP	.1	.2	.2	.5	.0	.0	.0	*	.0	.0	1.0	
	NO PCP	5.8	2.1	2.3	3.1	7.7	11.4	13.8	12.3	.0	1.8	60.5	
	TOT %	5.9	2.2	2.5	3.6	7.7	11.6	13.8	12.4	.0	1.8	61.4	
TOT OBS													612
TOT PCT		12.5	5.7	5.2	7.6	12.1	16.7	19.0	18.4	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.2	*	.3	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.2	.2	.5	.0	.0	.0	.0	.0	1.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	.0	.2	.0	.0	.1	.0	.0	.4	
	22+	.0	.0	.0	*	.1	.0	.0	.2	.0	.0	.4	
	TOT %	.1	.0	.0	*	.3	.0	.0	.3	.0	.0	.7	
1<2	0-3	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.4	
	4-10	.1	.0	.2	.0	.0	.0	.3	.1	.0	.0	.7	
	11-21	.6	.1	.2	.0	.1	*	.0	.4	.0	.0	1.5	
	22+	.1	*	.2	.1	.0	.0	.0	.1	.0	.0	.5	
	TOT %	.8	.3	.6	.1	.1	*	.5	.6	.0	.0	3.1	
2<5	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	4-10	.4	.2	.1	.2	.1	.3	.2	.0	.0	.0	1.5	
	11-21	1.6	.9	.2	.0	.2	.3	.6	.7	.0	.0	4.6	
	22+	.9	.4	.5	.2	.0	.2	.0	.8	.0	.0	2.9	
	TOT %	2.9	1.5	.9	.4	.3	1.1	.8	1.5	.0	.0	9.3	
5<10	0-3	.3	.0	.2	.0	.4	.2	.2	.1	.0	.7	2.0	
	4-10	.9	.1	.4	.5	.5	1.0	1.3	1.3	.0	.0	6.0	
	11-21	1.1	.9	.0	1.7	.9	1.7	2.0	1.2	.0	.0	9.5	
	22+	.9	.5	1.0	.4	1.7	.9	1.2	1.1	.0	.0	7.5	
	TOT %	3.1	1.5	1.6	2.6	3.5	3.7	4.7	3.7	.0	.7	25.1	
10+	0-3	.1	.3	.5	.2	.1	.5	.3	.7	.0	1.5	4.2	
	4-10	1.8	1.2	.5	1.2	3.0	4.2	5.3	4.7	.0	.0	22.0	
	11-21	3.0	.9	.8	1.2	3.5	5.1	4.6	3.8	.0	.0	22.9	
	22+	1.0	.1	.1	.5	1.2	1.8	3.6	3.2	.0	.0	11.5	
	TOT %	5.9	2.4	2.0	3.1	7.8	11.6	13.9	12.4	.0	1.5	60.6	
TOT OBS													346
TOT PCT		13.0	5.7	5.2	6.5	12.6	16.5	19.8	18.5	.0	2.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	3.4	.7	.0	1.4	19.0	27.2	4.1	1.4	.7	2.0	59.9	40.1	147
06609	2.3	.0	.0	3.1	9.3	24.0	10.1	.8	1.6	2.3	53.5	46.5	129
12615	4.4	.0	1.1	1.1	13.3	15.6	5.6	2.2	1.1	4.4	48.9	51.1	90
18621	9.8	.0	1.2	3.7	12.2	11.0	4.9	3.7	.0	1.2	47.6	52.4	82
TOT	20	1	2	10	62	94	28	8	4	11	240	208	448
PCT	4.5	.2	.4	2.2	13.8	21.0	6.3	1.8	.9	2.5	53.6	46.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	1.6	.0	2.1	8.3	24.0	64.1	192
06609	1.2	1.2	1.2	7.7	18.9	69.8	169
12615	1.3	.6	6.3	9.4	28.9	53.5	159
18621	1.5	1.5	2.2	12.5	33.8	48.5	136
TOT	9	5	19	61	170	392	656
PCT	1.4	.8	2.9	9.3	25.9	59.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	3.4	4.1	14.3	45.6	40.1	147
06609	1.6	1.6	10.3	44.4	45.2	126
12615	4.5	5.7	15.9	36.4	47.7	88
18621	10.0	11.3	26.3	23.8	50.0	80
TOT	19	22	69	174	198	441
PCT	4.3	5.0	15.6	39.5	44.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.0	2.3	.0	1	2.3
55/59	.0	.0	.0	.0	4.7	.0	.0	.0	2	4.7
50/54	.0	.0	.0	.0	2.3	2.3	.0	4.7	4	9.3
45/49	.0	2.3	.0	2.3	4.7	11.6	16.3	4.7	18	41.9
40/44	.0	.0	.0	2.3	.0	7.0	.0	.0	4	9.3
35/39	.0	.0	.0	.0	.0	4.7	7.0	2.3	6	14.0
30/34	.0	.0	.0	.0	.0	.0	2.3	2.3	2	4.7
25/29	.0	.0	.0	.0	.0	.0	9.3	4.7	6	14.0
TOTAL	0	1	0	2	5	11	16	8	43	100.0
PCT	.0	2.3	.0	4.7	11.6	25.6	37.2	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.7	.0	.0	.0	.0	.0	.0	.6	.0	.0
.0	.0	.0	.0	.0	2.9	1.7	.0	.0	.0
.0	2.3	2.3	2.3	.0	.0	.0	2.3	.0	.0
.0	.0	.0	2.9	21.5	8.1	7.0	2.3	.0	.0
.0	.0	2.3	.0	.0	.0	7.0	.0	.0	.0
6.4	2.3	.0	.0	.0	.0	4.7	.6	.0	.0
3.5	.0	.0	.0	.0	.0	.0	1.2	.0	.0
7.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0
18.6	4.7	4.7	5.2	21.5	11.0	20.3	14.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	72	63	57	47	32	28	27	46.7	192
06609	63	62	56	46	39	27	23	46.5	168
12615	66	63	55	45	30	27	25	44.5	161
18621	56	55	52	45	32	28	27	43.8	132
TOT	72	61	56	46	32	27	23	45.5	653

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	8.3	25.0	33.3	33.3	82	12
06609	.0	.0	10.0	50.0	40.0	.0	77	10
12615	.0	18.2	9.1	27.3	18.2	27.3	76	11
18621	.0	10.0	20.0	.0	60.0	10.0	80	10
TOT	0	3	5	11	16	8	79	43

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1907-1974AREA 0020 SAKHALIN ISLAND SE
48.0N 145.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	4	.0	.7
11/13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	.3	.0	.0	5	.0	.8
9/10	.0	.0	.0	.0	.0	.2	.0	.0	.3	.3	.0	.0	.0	5	.2	.7
7/8	.0	.0	.0	.0	.0	.2	.3	.7	.6	.5	.2	.0	.0	16	.2	2.5
6	.0	.0	.0	.0	.2	.0	.0	.5	.4	.2	.2	.0	.0	8	.2	1.1
5	.0	.0	.0	.0	.0	.0	.5	.7	.7	.2	.2	.0	.0	13	.0	2.1
4	.0	.0	.0	.0	.0	.0	1.5	2.0	1.0	.2	.0	.0	.0	28	.0	4.6
3	.0	.0	.0	.0	.2	.0	1.3	1.8	.8	.2	.0	.0	.0	26	.3	4.0
2	.0	.0	.0	.0	.0	.0	3.8	2.5	.7	.2	.2	.0	.0	44	.2	7.1
1	.0	.0	.0	.0	.2	2.1	1.8	.5	.2	.0	.0	.0	.0	29	.2	4.6
0	.0	.0	.0	.0	.0	.8	3.1	4.6	.8	.0	.0	.0	.0	57	.3	9.1
-1	.0	.0	.0	.2	.3	.8	2.6	1.3	.3	.0	.0	.0	.0	34	.3	5.3
-2	.0	.0	.2	.0	1.2	2.3	4.1	1.7	.3	.0	.0	.0	.0	59	.2	9.6
-3	.0	.0	.2	.0	.3	1.2	1.2	.8	.5	.0	.0	.0	.0	25	.0	4.1
-4	.0	.0	.2	.2	1.2	3.0	3.8	2.1	.2	.0	.0	.0	.0	64	.2	10.4
-5	.0	.0	.0	.3	1.2	3.1	2.3	1.0	.0	.0	.0	.0	.0	48	.0	7.9
-6	.0	.0	.0	.0	.2	.5	.7	.2	.0	.0	.0	.0	.0	9	.2	1.3
-7/-8	.0	.0	.2	1.0	1.5	3.1	1.0	.3	.0	.0	.0	.0	.0	43	.0	7.1
-9/-10	.0	.0	.2	.8	1.2	1.8	.3	.2	.0	.0	.0	.0	.0	27	.2	4.3
-11/-13	.0	.0	.7	.7	.8	1.0	.2	.0	.0	.0	.0	.0	.0	22	.0	3.6
-14/-16	.0	1.5	1.0	.3	.5	.0	.2	.0	.0	.0	.0	.0	.0	21	.0	3.5
-17/-19	.0	.0	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-20/-22	.0	.3	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-23/-25	.0	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-26/-30	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	12	23	23	52	112	178	136	48	14	7	1	1	606	15	591
PCT	.2	2.0	3.8	3.8	8.6	18.5	29.4	22.4	7.6	2.3	1.2	.2	.2	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.3	.0	.0	.0	2.1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.6	.2	.0	.0	.0	1.8	.0	.1	.1	.0	.0	.0	.1
3-4	.0	.0	2.5	.3	.0	.0	2.8	.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.0	2.4	1.1	.0	.0	3.5	.0	.0	.6	.3	.0	.0	.9
7	.0	.3	.2	.2	.0	.0	.7	.0	.0	.9	.9	.0	.0	1.8
8-9	.0	.0	.5	.8	.3	.0	1.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.0	6.4	3.3	.8	.0	14.1	.0	.7	2.9	1.3	.4	.0	5.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.4	.6	.0	.0	.0	1.0
1-2	.0	.3	.4	.0	.0	.0	.7	.0	.7	.1	.0	.0	.0	.8
3-4	.0	.0	.5	.2	.0	.0	.7	.0	.4	1.0	.4	.0	.0	1.7
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.3	.0	1.3
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.3	.1	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	1.3	1.8	.0	.0	3.6	.0	1.4	3.4	1.0	.4	.0	6.2

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.3	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.5	1.3	.0	.0	.0	2.7	.1	2.1	3.1	.0	.0	.0	5.3
3-4	.0	.4	2.1	.0	.0	.0	2.5	.0	.7	2.4	.3	.0	.0	3.4
5-6	.0	.0	1.6	1.0	.3	.0	2.9	.0	.0	.7	.4	.0	.0	1.1
7	.0	.0	1.6	1.5	.0	.0	3.1	.0	.0	1.0	2.2	.0	.0	3.3
8-9	.0	.0	.3	.9	.2	.0	1.4	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.9	.3	.0	.0	1.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.6	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	7.1	3.9	.5	.0	14.2	.1	3.8	8.2	4.4	.0	.0	16.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.3	1.0	.0	.0	.0	.0	1.3	
1-2	.2	2.0	.6	.0	.0	.0	2.8	.3	1.6	1.0	.0	.0	.0	2.9	
3-4	.0	.6	2.7	.2	.0	.0	3.6	.0	.9	2.2	.4	.0	.0	3.5	
5-6	.0	.5	2.1	1.5	.0	.0	4.1	.0	.4	1.0	1.8	.0	.0	3.2	
7	.0	.0	1.0	1.6	.9	.0	3.5	.0	.3	1.0	.7	.0	.0	2.0	
8-9	.0	.3	.9	.6	.0	.0	1.8	.0	.0	.7	1.0	.0	.0	1.6	
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	.2	.5	.0	.0	.7	.0	.0	.3	.7	.3	.0	1.3	
13-16	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.9	.6	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.5	7.5	5.0	1.5	.0	18.7	.6	4.1	6.4	6.1	.9	.0	18.1	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	5.6	1.2	.0	.0	.0	11.2	
1-2	.6	9.8	6.8	.0	.0	.0	17.2	
3-4	.0	3.3	14.8	1.8	.0	.0	19.8	
5-6	.0	.9	9.2	6.2	.3	.0	16.6	
7	.0	.6	6.5	7.4	1.2	.0	15.7	
8-9	.0	.3	2.4	4.7	.6	.0	8.0	
10-11	.0	.0	1.2	1.8	.3	.0	3.3	
12	.0	.0	.6	2.4	.6	.0	3.6	
13-16	.0	.0	.3	2.1	.9	.0	3.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.3	.0	.6	.0	.9	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	20.4	43.2	26.9	4.4	.0	100.0	338

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	7.1	7.8	6.0	5.8	2.4	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	5
6-7	.0	.4	1.8	4.4	6.2	4.0	3.8	.4	1.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	103	8
8-9	.2	.0	.9	1.8	2.2	2.9	2.9	.9	1.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	60	9
10-11	.0	.7	.0	.4	1.1	.7	.9	.2	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	20	9
12-13	.0	.0	1.3	.0	.0	.4	.2	.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
>13	.0	.0	.0	.9	.0	.7	.0	.0	.2	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	14	14
INDET	3.3	2.4	5.6	3.1	2.4	1.8	.9	.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	5
TOTAL	19	48	78	75	80	58	43	17	21	1	6	1	2	1	0	0	0	0	0	450	6
PCT	4.2	10.7	17.3	16.7	17.8	12.9	9.6	3.8	4.7	.2	1.3	.2	.4	.2	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.8	1.2	1.2	2.1	22.5	.0	.0	30.7	9.1	.0	3.6	.0	.0	1.2	55.3
NE	10.5	.0	.0	.0	18.0	.0	.0	24.8	3.8	.0	.0	.0	.0	.0	71.4
E	12.7	.0	11.4	.0	20.3	.0	.0	39.2	8.9	.0	.0	.0	.0	5.1	46.8
SE	23.3	.0	4.1	.0	9.6	.0	.0	37.0	6.8	.0	8.2	.0	.0	.0	47.9
S	8.0	.0	2.9	.0	.0	.0	.0	10.9	.0	.0	13.1	.0	.0	.0	75.9
SW	5.0	1.5	3.1	.0	11.2	.0	.0	20.8	1.5	.0	.0	.0	1.5	.0	76.1
W	.7	.0	.0	.0	11.0	.0	.0	11.7	1.8	.0	.9	.0	.9	.9	83.8
NW	1.4	.0	.0	.8	16.5	.0	.0	18.6	6.8	.0	.0	.0	.6	.0	74.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	50.0
TOT PCT	4.5	.4	1.3	.6	14.4	.0	.0	20.4	4.9	.0	2.4	.0	.6	.6	71.2
TOT OBS:	535														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.4	1.4	.7	.7	10.1	.0	.0	15.5	6.1	.0	2.7	.0	.7	.0	75.0
06009	2.0	.0	.7	.7	15.8	.0	.0	19.1	9.9	.0	1.3	.0	.0	.7	73.0
12015	6.9	.0	1.9	.0	18.2	.0	.0	25.8	3.8	.0	1.9	.0	.0	.6	67.9
18021	4.8	.0	1.9	1.0	13.3	.0	.0	20.0	2.9	.0	4.8	.0	1.9	1.0	69.5
TOT PCT	4.3	.4	1.2	.5	14.5	.0	.0	20.2	4.8	.0	2.5	.0	.5	.5	71.5
TOT OBS:	564														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.3	3.4	8.5	2.5	1.5	.0		16.1	18.3		21.3	13.7	13.4	7.4	14.0	9.5	18.3	30.4
NE	.5	2.0	2.5	1.3	.2	.0		6.4	15.3		4.0	5.6	10.0	1.9	4.2	21.4	2.5	15.2
E	.2	1.7	1.5	.1	.0	.0		3.5	11.6		3.5	.0	4.2	1.9	3.6	2.4	6.3	.0
SE	.0	2.2	1.1	.3	.2	.0		3.7	13.2		4.5	3.7	1.6	5.6	3.8	2.4	5.4	4.3
S	.1	2.3	2.9	1.0	.6	.0		6.9	16.4		7.9	3.7	7.2	5.6	7.0	.0	10.8	2.2
SW	.3	4.9	4.3	1.4	.6	.4		12.0	15.9		5.9	20.4	7.9	25.9	18.2	4.8	12.1	6.5
W	.2	7.0	7.8	4.8	.0	.2		19.9	15.8		15.6	16.7	23.6	16.7	19.7	21.4	22.9	21.7
NW	1.5	5.5	13.5	8.4	1.3	.1		30.3	17.5		34.4	36.1	31.3	35.2	29.4	38.1	21.7	15.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0		3.0	.0	.9	.0	.0	.0	.0	4.3
TOT OBS	20	140	204	96	22	3	485		16.3		101	27	108	27	118	21	60	23
TOT PCT	4.1	28.9	42.1	19.8	4.5	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	03	06	12
N	1.1	6.6	5.8	1.9	.8		16.1	18.3		19.7	12.2	13.3	21.7
NE	1.6	1.8	2.4	.4	.2		6.4	15.3		4.9	8.3	6.8	6.0
E	1.4	1.1	.9	.1	.0		3.5	11.6		2.7	3.7	3.4	4.3
SE	.6	2.0	.8	.4	.0		3.7	13.2		4.3	2.4	3.6	5.1
S	.9	2.8	2.4	.6	.2		6.9	16.4		7.0	6.9	5.9	8.4
SW	2.9	4.4	3.4	.7	.6		12.0	15.9		9.0	11.5	16.2	10.5
W	1.9	10.7	9.9	1.4	.2		19.9	15.8		15.8	22.2	20.0	22.6
NW	4.4	9.2	13.2	3.4	.1		30.3	17.5		34.8	32.0	30.8	19.9
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.0						1.0	.0		2.3	.7	.0	1.2
TOT OBS	77	187	169	42	10	485		16.3		128	135	139	83
TOT PCT	15.9	38.6	34.8	8.7	2.1		100.0			100.0	100.0	100.0	100.0

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48.8N 145.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	3.1	25.0	49.2	16.4	3.9	.0	15.6	100.0	128
06009	.7	4.4	28.1	40.7	21.5	4.4	.0	16.1	100.0	135
12015	.0	2.2	30.9	38.8	22.3	5.0	.7	16.8	100.0	139
18021	1.2	2.4	32.5	38.6	18.1	4.8	2.4	17.1	100.0	83
TOT	5	15	140	204	96	22	3	16.3		485
PCT	1.0	3.1	28.9	42.1	19.8	4.5	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.5	6.7	6.6		6.3
NE	.5	.5	1.2	3.6		6.6
E	.0	.3	.8	3.1		7.4
SE	.0	.0	.6	2.1		7.7
S	.8	.0	1.4	3.3		6.6
SW	2.2	1.5	3.8	4.2		5.4
W	4.9	3.0	7.5	6.1		5.0
NW	4.5	4.3	15.5	8.3		5.4
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.0	.8		6.0
TOT OBS	54	37	135	139	365	5.7
TOT PCT	14.8	10.1	37.0	38.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL	
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS	
.8	.5	.3	.2	3.8	3.4	1.6	.5	.3	.0	3.7		
.6	.0	.3	.3	2.3	.8	.5	.0	.0	.0	1.1		
1.2	.0	.0	.2	.7	1.5	.3	.0	.0	.0	.3		
.8	.0	.0	.1	.6	.9	.1	.0	.0	.3	.0		
.5	.0	.0	.5	1.5	1.5	.5	.0	.2	.0	.8		
1.4	.0	.3	.1	2.1	1.3	.5	.9	.3	.3	4.5		
1.7	.3	.5	1.4	2.7	3.5	1.8	.2	.2	.5	8.6		
1.3	.1	.1	1.2	6.6	8.8	3.1	.3	.3	.0	10.9		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3		
32	3	5	14	75	79	31	7	5	4	110		365
8.8	.8	1.4	3.8	20.5	21.6	8.5	1.9	1.4	1.1	30.1	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.8	1.8	2.1	2.3	2.3	2.3	2.3
>5000	2.3	3.4	3.6	3.9	4.1	4.1	4.1	4.1
>3500	7.3	10.9	11.9	12.2	12.4	12.7	12.7	12.7
>2000	16.6	26.7	31.6	32.4	33.2	33.7	33.9	33.9
>1000	22.0	41.5	49.7	52.3	53.9	54.4	54.9	54.9
>600	23.6	45.1	53.6	56.2	57.8	58.3	58.8	58.8
>300	23.6	45.6	54.4	57.0	59.1	59.6	60.1	60.1
>150	24.1	46.1	54.9	58.0	60.1	60.6	61.1	61.1
>0	24.9	48.2	58.0	63.0	66.1	68.4	70.2	70.5
TOTAL	96	186	224	243	255	264	271	272

TOTAL NUMBER OF OBS: 386

PCT FREQ NH <5/8: 29.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	9.4	2.1	5.7	6.4	3.2	6.9	12.2	12.6	33.0	8.5	436

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.2	.3	.2	.0	.4	.5	1.0	.0	.0	3.4	
	NO PCP	.2	.0	.2	.0	.0	.2	.2	.0	.0	.4	1.1	
	TOT %	.8	.2	.5	.2	.0	.6	.7	1.0	.0	.4	4.5	
1/2<1	PCP	.8	.0	.1	.1	.0	.2	.7	.9	.0	.0	2.8	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	TOT %	1.0	.0	.1	.1	.0	.2	.7	.9	.0	.2	3.2	
1<2	PCP	.8	.3	.3	*	.0	.4	.1	1.0	.0	.0	3.0	
	NO PCP	.3	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.3	
	TOT %	1.2	.3	.3	*	.0	.4	.3	1.8	.0	.0	4.3	
2<5	PCP	1.9	.6	.0	.4	.2	.9	.5	1.6	.0	.0	6.2	
	NO PCP	1.6	.3	.2	.4	.2	.4	.5	2.6	.0	.0	6.2	
	TOT %	3.6	.9	.2	.8	.4	1.4	1.0	4.3	.0	.0	12.4	
5<10	PCP	.5	.2	.7	.2	.5	.5	.4	1.3	.0	.0	4.3	
	NO PCP	2.2	2.3	.9	1.4	2.1	2.3	3.2	8.0	.0	.0	22.4	
	TOT %	2.7	2.5	1.6	1.6	2.6	2.8	3.6	9.3	.0	.0	26.7	
10+	PCP	.0	.0	.1	.3	.0	.2	.2	.0	.0	.0	.8	
	NO PCP	6.2	2.2	1.0	.3	2.9	6.7	14.2	13.9	.0	.6	48.0	
	TOT %	6.2	2.2	1.1	.6	2.9	6.9	14.4	13.9	.0	.6	48.8	
TOT OBS		531											
TOT PCT		15.5	6.1	3.7	3.4	5.9	12.2	20.7	31.4	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4		
	4-10	.3	.1	.2	.3	.0	.0	.3	.2	.0		1.3		
	11-21	.4	.0	.0	.0	.0	.2	.2	.2	.0		1.0		
	22+	.2	.2	.0	.0	.0	.4	.4	.9	.0		2.1		
	TOT %	.9	.3	.2	.3	.0	.6	.9	1.3	.0	.4	4.8		
1/2<1	0-3	.2	.0	.0	.0	.0	.0	.0	.1	.0	.2	.4		
	4-10	.2	.0	.0	.0	.0	.2	.2	.2	.0		.8		
	11-21	1.0	.0	.0	.0	.0	.0	.2	.3	.0		1.5		
	22+	.0	.0	.1	.1	.0	.0	.2	.2	.0		.6		
	TOT %	1.4	.0	.1	.1	.0	.2	.6	.8	.0	.2	3.4		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.5	.2	.0	.0	.4	.1	.1	.0		1.3		
	11-21	.8	.1	.0	.0	.0	.0	.0	1.0	.0		1.9		
	22+	.3	.0	.0	.0	.0	.2	.0	.5	.0		1.0		
	TOT %	1.1	.5	.2	.0	.0	.6	.1	1.7	.0	.0	4.2		
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2		
	4-10	.3	.1	.0	.4	.0	.5	.4	.8	.0		2.5		
	11-21	1.5	.6	.0	.4	.0	.3	.3	1.5	.0		4.6		
	22+	1.9	.3	.0	.2	.4	.6	.4	2.5	.0		6.3		
	TOT %	3.7	.9	.0	1.0	.4	1.5	1.1	5.0	.0	.0	13.6		
5<10	0-3	.1	.3	.0	.0	.0	.0	.0	.4	.0	.0	.8		
	4-10	.8	.9	.7	1.3	.4	.6	.9	1.2	.0		6.9		
	11-21	1.2	.7	1.2	.4	1.7	1.1	1.4	4.7	.0		12.4		
	22+	.5	.6	.0	.1	.8	.5	1.3	3.5	.0		7.3		
	TOT %	2.6	2.6	1.9	1.8	2.9	2.3	3.6	9.7	.0	.0	27.5		
10+	0-3	.0	.2	.2	.0	.1	.3	.2	.8	.0	.4	2.3		
	4-10	1.6	.5	.7	.2	1.5	3.2	4.9	3.2	.0		15.7		
	11-21	3.6	1.1	.3	.3	1.3	2.7	5.9	6.0	.0		21.2		
	22+	1.2	.2	.0	.0	.2	.7	2.6	2.4	.0		7.3		
	TOT %	6.3	2.0	1.2	.5	3.1	7.0	13.6	12.4	.0	.4	46.5		
TOT OBS														477
TOT PCT		16.0	6.3	3.6	3.7	6.4	12.2	19.9	30.8	.0	1.0	100.0		

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.4	.9	2.7	2.7	24.1	27.7	8.9	1.8	1.8	.0	75.9	24.1	112
06009	5.7	.8	.0	7.3	24.4	17.9	8.9	2.4	2.4	1.6	71.5	28.5	123
12015	15.8	1.0	1.0	1.0	17.8	16.8	6.9	2.0	.0	2.0	64.4	35.6	101
18021	14.5	1.8	1.8	3.6	10.9	23.6	9.1	.0	.0	.0	65.5	34.5	55
TOT	37	4	5	15	81	83	33	7	5	4	274	117	391
PCT	9.5	1.0	1.3	3.8	20.7	21.2	8.4	1.8	1.3	1.0	70.1	29.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.3	4.6	3.3	11.2	25.7	52.0	152
06009	3.7	1.9	6.8	16.7	22.2	48.8	162
12015	6.3	2.5	5.0	12.5	26.9	46.9	160
18021	5.8	5.8	3.8	12.5	30.8	41.3	104
TOT	27	20	28	77	150	276	578
PCT	4.7	3.5	4.8	13.3	26.0	47.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.4	13.5	25.2	52.3	22.5	111
06009	4.9	6.6	30.3	41.8	27.9	122
12015	16.2	21.2	34.3	34.3	31.3	99
18021	14.8	20.4	37.0	31.5	31.5	54
TOT	36	55	119	160	107	386
PCT	9.3	14.2	30.8	41.5	27.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	2.3	.0	.0	1	2.3
45/49	.0	.0	.0	.0	2.3	.0	2.3	2.3	3	7.0
40/44	.0	.0	.0	.0	2.3	2.3	.0	.0	2	4.7
35/39	.0	.0	.0	.0	4.7	4.7	2.3	4.7	7	16.3
30/34	.0	.0	.0	2.3	11.6	2.3	7.0	2.3	11	25.6
25/29	.0	.0	.0	4.7	9.3	4.7	2.3	2.3	10	23.3
20/24	.0	.0	.0	4.7	7.0	2.3	2.3	.0	7	16.3
15/19	.0	.0	.0	.0	2.3	2.3	.0	.0	2	4.7
TOTAL	.0	.0	.0	5	17	8	8	5	43	100.0
PCT	.0	.0	.0	11.6	39.5	18.6	18.6	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	1.7	.6	.0	.0
.0	2.3	.0	.0	.0	.0	4.7	.0	.0	.0
.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0
2.3	2.9	4.1	.0	2.3	2.9	1.7	.0	.0	.0
2.3	.0	2.3	.0	1.7	5.2	13.4	.6	.0	.0
5.8	1.2	.0	.0	.0	.0	5.2	11.0	.0	.0
3.5	.0	.0	.0	1.7	.6	3.5	7.0	.0	.0
1.7	.0	.0	.0	.0	.0	1.7	1.2	.0	.0
15.7	6.4	6.4	.0	5.8	8.7	36.6	20.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	55	46	33	19	16	12	32.6	152
06009	59	54	46	34	19	14	14	33.4	158
12015	48	45	41	32	18	12	9	30.4	160
18021	52	50	43	30	18	10	10	30.1	105
TOT	60	52	45	32	19	14	9	31.8	575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.7	50.0	8.3	8.3	16.7	71	12
06009	.0	.0	25.0	16.7	41.7	16.7	80	12
12015	.0	25.0	16.7	33.3	16.7	8.3	71	12
18021	.0	.0	85.7	14.3	.0	.0	66	7
TOT	0	5	17	8	8	5	73	43

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PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1928-1974AREA 0020 SAKHALIN ISLAND SE
48.0N 145.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.4	.2	.0	.2	9	.0	1.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.2	.0	5	.0	1.0
6	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.2	.6	.4	.0	.0	.0	6	.0	1.1
4	.0	.0	.0	.0	.0	.0	.0	.6	.8	.0	.2	.0	.0	8	.0	1.5
3	.0	.0	.0	.0	.0	.0	.6	.2	.2	.4	.0	.0	.0	7	.0	1.3
2	.0	.0	.0	.0	.0	.2	.2	.4	.6	.2	.0	.0	.0	8	.0	1.5
1	.0	.0	.0	.0	.0	.2	.8	.6	.4	.0	.0	.0	.0	10	.0	1.9
0	.0	.0	.0	.0	.0	.6	1.5	1.9	.8	1.1	.0	.0	.0	31	.6	5.3
-1	.0	.0	.0	.0	.0	.2	1.1	.8	.2	.0	.0	.0	.0	12	.2	2.1
-2	.0	.0	.0	.0	.4	.6	1.7	1.5	1.3	.0	.0	.0	.0	29	.6	4.9
-3	.0	.0	.0	.0	.0	.2	1.3	1.1	1.3	.2	.0	.0	.0	22	.4	3.8
-4	.0	.0	.0	.0	.8	.8	3.0	1.7	1.0	.2	.0	.0	.0	39	.2	7.2
-5	.0	.0	.0	.0	1.1	.8	2.1	2.3	1.3	.2	.0	.0	.0	41	.0	7.8
-6	.0	.0	.0	.0	.2	.8	.6	.6	.2	.0	.0	.0	.0	12	.0	2.3
-7/-8	.0	.0	.0	.4	2.5	3.0	2.5	1.3	.4	.0	.0	.0	.0	53	.2	10.1
-9/-10	.0	.0	.0	.2	2.1	3.4	1.7	.6	.0	.0	.0	.0	.0	42	.6	7.4
-11/-13	.0	.0	1.1	2.9	4.2	4.0	1.5	.2	.0	.0	.0	.0	.0	77	.0	14.6
-14/-16	.0	.2	1.7	3.0	4.2	.0	.2	.0	.0	.0	.0	.0	.0	49	.0	9.3
-17/-19	.0	.4	1.5	1.9	1.0	.8	.0	.0	.0	.0	.0	.0	.0	29	.0	5.5
-20/-22	.0	.6	1.7	1.3	.2	.4	.2	.0	.0	.0	.0	.0	.0	23	.0	4.4
-23/-25	.2	.4	.6	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	9	.0	1.7
-26/-30	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.8
TOTAL	3	8	35	53	88	97	75	53	20	3	2	1		526	14	512
PCT	.6	1.5	6.7	10.1	16.7	18.4	14.3	10.1	3.8	.6	.4	.2		100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	1.2	.0	.0	.0	2.7	.3	.5	.2	.0	.0	.0	.0	.0	1.0
3-4	.0	.3	3.4	.2	.0	.0	4.0	.0	.3	1.4	.3	.0	.0	.0	.0	2.0
5-6	.0	.5	2.2	.3	.0	.0	3.0	.0	.0	.7	.3	.0	.0	.0	.0	1.0
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.3	.0	.0	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.3	.0	.6	.0	.0	.3	.0	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.7	.2	.0	1.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	9.7	1.6	2.4	.0	16.2	.3	.8	2.9	1.2	.3	.0	.0	.0	5.6

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.3
1-2	.3	1.1	.6	.0	.0	.0	2.0	.0	.8	.0	.0	.0	.0	.0	.0	.8
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.3	.0	.1	.0	.0	.0	.0	.4
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.3	.7	.1	.0	.0	.0	.0	1.1
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	2.3	.0	.0	.0	4.1	.0	1.8	1.4	.2	.3	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0020 SAKHALIN ISLAND SE
48.0N 145.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.0	.3	.0	.0	.0	.0	1.4
1-2	.0	.9	1.0	.0	.0	.0	1.9	.0	1.2	1.6	.0	.0	.0	.0	2.8
3-4	.0	.0	1.0	.2	.0	.0	1.3	.0	.3	1.7	.3	.0	.0	.0	2.3
5-6	.0	.0	1.0	.2	.0	.0	1.3	.0	.0	.9	.3	.0	.0	.0	1.2
7	.0	.0	.9	.3	.0	.0	1.2	.0	.0	.4	.0	.0	.0	.0	.4
8-9	.0	.0	.3	.0	.3	.0	.6	.0	.0	.3	.1	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.3	.3	.6	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.3	.0	.0	1.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	4.3	.8	.6	.0	6.9	.0	2.9	5.9	1.5	1.0	.6	11.9	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	1.1	.0	.0	.0	.0	1.1	.4	.4	1.0	.0	.0	.0	.0	1.8	
1-2	.0	2.1	1.8	.0	.0	.0	3.9	.0	.6	1.8	.0	.0	.0	.0	2.4	
3-4	.0	1.7	3.9	.0	.0	.0	5.6	.0	1.2	4.1	.7	.0	.0	.0	6.0	
5-6	.0	.2	2.0	1.0	.0	.0	3.3	.0	.6	3.9	2.2	.0	.0	.0	6.6	
7	.0	.2	1.0	1.0	.0	.0	2.3	.0	.4	2.2	1.9	.3	.0	.0	4.8	
8-9	.0	.0	.2	.7	.0	.0	1.0	.0	.0	1.7	1.8	.0	.0	.0	3.5	
10-11	.0	.0	.3	1.5	.0	.0	1.8	.0	.0	.6	1.1	.7	.0	.0	2.5	
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.3	.6	.0	.0	1.2	.0	.0	.6	.6	.3	.1	.0	1.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.4	9.6	5.6	.0	.2	20.9	.4	3.2	15.9	8.8	1.5	.1	29.8	99.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	3.2	1.9	.0	.0	.0	6.8	
1-2	.6	8.7	8.1	.0	.0	.0	17.4	
3-4	.0	4.2	16.5	1.9	.0	.0	22.6	
5-6	.0	1.6	11.9	4.5	.0	.0	18.1	
7	.0	.6	7.4	3.2	.3	.0	11.6	
8-9	.0	.0	3.2	2.6	.6	.0	6.5	
10-11	.0	.0	1.6	4.7	2.3	.0	8.1	
12	.0	.0	.3	1.3	.6	.0	2.3	
13-16	.0	.3	1.0	1.6	.3	.6	3.9	
17-19	.0	.3	.0	.3	.6	.0	1.3	
20-22	.0	.0	.0	.0	1.0	.0	1.0	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.3	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	19.0	51.9	19.7	6.1	1.0	100.0	310

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	5.7	6.6	6.9	4.7	.9	1.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
6-7	.0	.0	1.4	5.0	4.0	4.5	3.8	1.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	8
8-9	.0	.5	1.4	.9	1.2	1.9	2.1	.2	1.7	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	46	9
10-11	.0	.0	.7	.2	.7	1.7	.7	.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	22	9
12-13	.0	.0	.9	.2	.2	.5	.7	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
>13	.0	.0	.0	.0	.2	.0	.7	.2	.2	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	9	15
INDEX	1.7	3.3	5.7	4.7	4.3	2.8	2.6	.7	2.1	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	122	6
TOTAL	10	40	71	76	63	52	51	12	30	9	4	1	1	1	1	0	0	0	0	423	7
PCT	2.4	9.5	16.8	18.0	15.4	12.3	12.1	2.8	7.1	2.1	.9	.2	.2	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1937-1973

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AREA 0020 SAKHALIN ISLAND SE
48.8N 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.5	.0	.0	.0	54.9	.0	.0	56.3	3.9	.0	.0	.0	.0	.0	39.8
NE	1.9	.0	.0	.0	41.5	.0	.0	41.5	22.6	.0	.0	.0	.0	.0	35.8
E	3.2	.0	.0	.0	46.3	.0	.0	46.3	7.4	.0	.0	.0	.0	.0	46.3
SE	.0	.0	5.9	5.9	30.9	.0	.0	42.6	7.4	.0	5.9	.0	.0	.0	44.1
S	.0	.0	.0	.0	23.3	.0	.0	23.3	10.0	.0	.0	.0	.0	.0	66.7
SW	.0	.0	.0	.0	22.9	.0	.0	22.9	1.8	.0	.9	.0	3.7	.0	70.6
W	.0	.9	.0	.0	22.6	.0	.0	23.5	6.1	.0	2.6	1.3	.0	1.7	64.8
NW	.3	.6	.0	.0	32.1	.0	.0	33.0	7.2	.0	1.4	.3	.0	.0	58.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	50.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
TOT PCT	.7	.3	.3	.3	34.9	.0	.0	36.3	6.6	.0	1.4	.3	.3	.3	54.7
TOT OBS:	289														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	.0	.0	.0	.0	40.2	.0	.0	40.2	7.6	.0	2.2	.0	.0	1.1	48.9
06609	1.1	1.1	.0	.0	29.7	.0	.0	31.9	4.4	.0	1.1	1.1	.0	.0	61.5
12615	.0	.0	1.4	1.4	41.4	.0	.0	44.3	4.3	.0	1.4	.0	.0	.0	50.0
18621	1.9	.0	.0	.0	29.6	.0	.0	29.6	9.3	.0	.0	.0	1.9	.0	59.3
TOT PCT	.7	.3	.3	.3	35.5	.0	.0	36.8	6.2	.0	1.3	.3	.3	.3	54.7
TOT OBS:	307														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	2.4	7.9	6.2	1.1	.0		17.6	20.4		24.0	8.3	20.5	12.5	7.4	.0	23.6	.0
NE	.0	.9	1.0	.5	.1	.0		2.5	15.6		3.1	.0	4.5	6.3	.5	.0	.7	.0
E	.4	1.6	1.2	2.8	.3	.0		6.3	18.7		3.5	8.3	4.9	.0	7.4	40.0	8.1	25.0
SE	.0	.8	.9	2.3	.1	.0		4.1	20.8		3.5	8.3	.0	7.8	5.6	20.0	2.7	25.0
S	.0	.0	2.0	1.2	.0	.0		3.2	19.9		3.8	.0	1.8	10.9	3.2	.0	2.0	.0
SW	.0	3.0	4.5	1.8	.0	.0		9.3	16.1		11.8	.0	11.2	.0	8.8	.0	10.1	.0
W	.4	4.5	11.5	4.7	1.5	.0		22.6	17.8		21.2	20.8	13.4	21.9	27.8	30.0	32.4	12.5
NW	.4	6.8	14.6	10.1	.9	.0		32.8	18.0		29.2	54.2	42.0	40.6	37.5	10.0	14.9	37.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		.0	.0	1.8	.0	1.9	.0	5.4	.0
TOT OBS	7	50	109	74	10	0	250		18.1		72	6	56	16	54	5	37	4
TOT PCT	2.8	20.0	43.6	29.6	4.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.2	5.3	6.7	4.4	.0		17.6	20.4	22.8	18.8	6.8	21.3	
NE	.9	.5	.6	.5	.0		2.5	15.6	2.9	4.9	.4	.6	
E	1.2	1.2	2.5	1.4	.0		6.3	18.7	3.8	3.8	10.2	9.8	
SE	.4	.4	2.7	.6	.0		4.1	20.8	3.8	1.7	6.8	4.9	
S	.0	.9	1.9	.4	.0		3.2	19.9	3.5	3.8	3.0	1.8	
SW	1.3	3.6	3.6	.8	.0		9.3	16.1	10.9	8.7	8.1	9.1	
W	1.5	8.8	9.8	2.5	.0		22.6	17.8	21.2	15.3	28.0	30.5	
NW	4.3	9.7	14.2	4.6	.0		32.8	18.0	31.1	41.7	35.2	17.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.6						1.6	.0	.0	1.4	1.7	4.9	
TOT OBS	31	76	105	38	0	250		18.1	78	72	59	41	
TOT PCT	12.4	30.4	42.0	15.2	.0		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1964-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	.0	1.3	17.9	41.0	35.9	3.8	.0	19.3	100.0	78
0600Z	1.4	.0	25.0	47.2	22.2	4.2	.0	16.9	100.0	72
1201Z	1.7	3.4	15.3	44.1	30.5	5.1	.0	18.7	100.0	59
1802Z	4.9	.0	22.0	41.5	29.3	2.4	.0	17.0	100.0	41
TOT	4	3	50	109	74	10	0	18.1		250
PCT	1.6	1.2	20.0	43.6	29.6	4.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.3	7.0	10.2		7.0
NE	.0	.5	1.6	2.0		7.0
E	.5	.0	2.8	4.1		6.9
SE	.0	.0	1.9	2.3		7.1
S	.0	.0	.8	1.5		7.3
SW	2.3	.9	3.3	3.6		5.5
W	3.9	3.3	7.4	6.9		5.4
NW	2.2	2.0	13.6	12.4		6.2
VAM	.0	.0	.0	.0		.0
CALM	.0	.5	.0	.9		6.6
TOT OBS	19	18	82	94	213	6.3
TOT PCT	8.9	8.5	38.5	44.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.9	.0	.8	.8	6.5	3.9	1.9	.0	.5	.0	1.3	
NE	.1	.0	.9	.7	1.3	.5	.0	.0	.0	.0	.5	
E	1.8	.4	.5	.0	1.5	2.8	.0	.0	.0	.0	.5	
SE	1.1	.0	.0	.0	1.4	.8	.5	.0	.0	.0	.5	
S	.4	.0	.0	.4	.7	.9	.0	.0	.0	.0	.0	
SW	.0	.0	.8	1.8	4.0	.6	.0	.0	.0	.0	3.3	
W	2.0	.5	.9	2.8	3.3	2.1	.0	.0	.0	.0	8.9	
NW	4.0	.0	1.1	2.0	8.1	8.3	.6	.0	.0	.5	6.7	
VAM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.5	
TOT OBS	26	2	5	12	50	56	13	0	1	1	47	213
TOT PCT	12.2	.9	2.3	5.6	23.5	26.3	6.1	.0	.5	.5	22.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	.9	.9	.9	.9	.9	.9	.9
>5000	.9	.9	.9	.9	.9	.9	.9	.9
>3500	4.5	6.4	7.3	7.3	7.3	7.3	7.3	7.3
>2000	15.5	26.4	28.6	30.0	32.3	32.3	33.2	33.2
>1000	20.0	37.3	44.1	48.6	53.2	54.5	55.9	55.9
>600	21.4	40.9	49.5	54.1	59.5	60.9	62.3	62.3
>300	21.8	42.3	52.3	56.8	62.3	63.6	65.0	65.0
>150	21.8	42.3	52.3	56.8	62.7	64.1	65.5	65.5
>0	22.7	43.6	55.9	62.7	70.5	75.0	78.6	78.6
TOTAL	50	96	123	138	155	165	173	173

TOTAL NUMBER OF OBS: 220

PCT FREQ NH <5/8: 21.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	3.0	1.5	4.2	4.9	5.3	6.4	13.6	12.8	37.7	10.6	265

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	2.3	.1	.8	1.2	.0	1.1	1.2	2.3	.0	.0	9.0	
	NO PCP	.0	.0	.3	.7	.0	.0	.0	.3	.0	.0	1.4	
	TOT %	2.3	.1	1.1	1.9	.0	1.1	1.2	2.6	.0	.0	10.4	
1/2<1	PCP	1.0	.9	.9	.1	.3	.7	1.4	1.7	.0	.3	7.2	
	NO PCP	.3	.0	.0	.0	.0	.4	.6	.1	.0	.0	1.4	
	TOT %	1.2	.9	.9	.1	.3	1.1	2.0	1.8	.0	.3	8.7	
1<2	PCP	2.7	.3	.7	.1	.3	.0	.6	2.4	.0	.0	6.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	2.7	.3	.7	.1	.3	.0	.6	2.6	.0	.0	7.3	
2<5	PCP	2.0	.0	.6	1.1	.0	.0	1.6	2.3	.0	.3	8.0	
	NO PCP	.7	.3	.0	.1	.3	.4	1.6	1.5	.0	.0	4.9	
	TOT %	2.7	.3	.6	1.2	.3	.4	3.2	3.7	.0	.3	12.8	
5<10	PCP	1.5	.0	.3	.0	.0	.7	.0	1.3	.0	.0	3.8	
	NO PCP	2.5	1.1	1.2	1.2	.8	2.8	4.9	7.3	.0	.3	22.2	
	TOT %	4.0	1.1	1.6	1.2	.8	3.5	4.9	8.6	.0	.3	26.0	
10+	PCP	.4	.3	.0	.0	.0	.0	.2	.3	.0	.0	1.4	
	NO PCP	4.9	1.2	2.9	1.4	1.0	3.6	7.8	10.8	.0	.3	33.3	
	TOT %	4.9	1.6	2.9	1.4	1.0	3.6	8.0	11.0	.0	.3	34.7	
TOT OBS													288
TOT PCT		17.9	4.3	7.7	5.9	2.6	9.8	20.0	30.4	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	11-21	.8	.0	.0	.0	.0	.9	.7	1.3	.0	.0	3.8	
	22+	1.1	.0	1.0	1.5	.0	.0	.4	1.8	.0	.0	5.8	
	TOT %	2.0	.0	1.0	1.5	.0	1.4	1.1	3.0	.0	.0	10.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.8	
	11-21	.4	.0	.0	.0	.4	.0	1.3	1.3	.0	.0	3.3	
	22+	.4	.4	.4	.0	.0	.4	.4	.8	.0	.0	2.9	
	TOT %	.8	.4	.4	.0	.4	.9	2.0	2.1	.0	.4	7.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	4-10	.4	.0	.0	.0	.0	.0	.2	.2	.0	.0	.8	
	11-21	.3	.4	.4	.0	.0	.0	.4	1.8	.0	.0	3.3	
	22+	2.1	.0	.0	.0	.0	.0	.3	.9	.0	.0	3.3	
	TOT %	2.8	.4	.4	.0	.0	.0	1.4	2.9	.0	.0	7.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.3	.0	.0	.0	.0	.1	1.4	1.1	.0	.0	2.9	
	11-21	1.5	.0	.4	.5	.3	.0	.8	1.9	.0	.0	5.4	
	22+	1.5	.0	.3	.9	.0	.4	2.0	1.6	.0	.0	6.7	
	TOT %	3.2	.0	.7	1.5	.3	.5	4.2	4.6	.0	.4	15.4	
5<10	0-3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.8	
	4-10	.7	.5	.0	.4	.0	.8	.7	1.4	.0	.0	4.6	
	11-21	2.6	.0	.0	.0	.9	2.4	2.8	5.0	.0	.0	13.8	
	22+	1.1	.0	.7	.1	.0	.1	1.4	3.2	.0	.0	6.7	
	TOT %	4.5	.5	1.1	.5	.9	3.3	4.9	9.6	.0	.4	25.8	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.8	
	4-10	1.0	.4	1.7	.4	.0	1.3	2.1	4.4	.0	.0	11.3	
	11-21	2.6	.6	.4	.4	.4	1.4	5.1	3.6	.0	.0	14.6	
	22+	.4	.0	.4	.0	.4	.5	2.0	2.9	.0	.0	6.7	
	TOT %	4.1	1.0	2.5	.8	.8	3.1	9.2	11.4	.0	.4	33.3	
TOT OBS													240
TOT PCT		17.4	2.4	6.3	4.3	2.5	9.3	22.7	33.5	.0	1.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	12.8	.0	2.6	7.7	23.1	26.9	7.7	.0	.0	.0	80.8	19.2	78
06009	6.9	2.8	5.6	6.9	23.6	23.6	5.6	.0	1.4	1.4	77.8	22.2	72
12015	23.9	.0	.0	4.3	7.7	23.9	6.5	.0	.0	.0	82.6	17.4	46
18021	10.3	.0	.0	3.4	13.8	31.0	3.4	.0	.0	.0	62.1	37.9	29
TOT	29	2	6	14	50	58	14	0	1	1	175	50	225
PCT	12.9	.9	2.7	6.2	22.2	25.8	6.2	.0	.4	.4	77.8	22.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	12.8	7.4	5.3	12.8	24.5	37.2	94
06009	6.7	8.9	4.4	11.1	26.7	42.2	90
12015	12.3	8.2	15.1	16.4	26.0	21.9	73
18021	9.3	9.3	5.6	24.1	24.1	27.8	54
TOT	32	26	23	47	79	104	311
PCT	10.3	8.4	7.4	15.1	25.4	33.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	12.8	21.8	42.3	39.7	17.9	78
06009	7.2	24.6	37.7	42.0	20.3	69
12015	23.9	32.6	52.2	30.4	17.4	46
18021	11.1	25.9	44.4	29.6	25.9	27
TOT	29	56	95	82	43	220
PCT	13.2	25.5	43.2	37.3	19.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	8.7	.0	.0	.0	2	8.7
40/44	.0	.0	.0	.0	.0	4.3	.0	4.3	2	8.7
35/39	.0	.0	.0	.0	.0	8.7	8.7	4	17.4	17.4
30/34	.0	.0	.0	.0	8.7	.0	8.7	21.7	9	39.1
25/29	.0	.0	.0	.0	.0	8.7	.0	8.7	4	17.4
20/24	.0	.0	.0	.0	.0	4.3	4.3	.0	2	8.7
TOTAL	0	0	0	0	4	5	10	23	23	100.0
PCT	.0	.0	.0	.0	17.4	17.4	21.7	43.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
3.3	4.3	.0	.0	.0	.0	.0	1.1	.0	.0
3.3	.0	.0	.0	.0	.0	3.3	2.2	.0	.0
.0	.0	.0	5.4	7.6	4.3	.0	.0	.0	.0
8.7	.0	3.3	1.1	4.3	.0	8.7	13.0	.0	.0
.0	.0	.0	.0	.0	4.3	10.9	2.2	.0	.0
.0	.0	.0	.0	.0	.0	4.3	4.3	.0	.0
15.2	4.3	3.3	6.5	12.0	8.7	27.2	22.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	46	37	25	13	3	3	25.4	92
06009	54	53	39	28	14	10	10	27.5	95
12015	50	49	36	24	12	5	5	24.5	72
18021	50	49	36	23	12	0	0	24.4	56
TOT	54	50	37	25	14	3	0	25.7	315

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	25.0	25.0	50.0	87	4		
06009	.0	.0	11.1	22.2	11.1	55.6	86	9		
12015	.0	.0	25.0	.0	75.0	.0	83	4		
18021	.0	.0	33.3	16.7	.0	50.0	82	6		
TOT	0	0	4	4	5	10	84	23		

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1937-1973

AREA 0020 SAKHALIN ISLAND SE
48.8N 146.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	2	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0	.4	.0	.0	4	.0	1.5
1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	5	.0	1.8
0	.0	.0	.0	.0	.0	.0	.0	2.2	1.8	.7	.0	.0	.0	.4	14	.4	4.8
-1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.4	.0	3	.0	1.1
-2	.0	.0	.0	.0	.0	.0	.0	1.1	2.6	.0	.4	.0	.0	.0	11	.0	4.0
-3	.0	.0	.0	.0	.0	.0	.0	.7	1.5	.7	.0	.0	.0	.4	9	.0	3.3
-4	.0	.0	.0	.0	.0	.0	.0	1.8	1.5	1.5	.0	.0	.0	.0	13	.0	4.8
-5	.0	.0	.0	.0	.0	.0	.0	4.0	3.3	.0	.0	.0	.0	.0	20	.0	7.3
-6	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.4	.0	.0	.0	.0	5	.0	1.8
-7/-8	.0	.0	.0	.0	.0	.0	1.5	4.8	1.8	.0	.0	.0	.0	.0	22	.4	7.7
-9/-10	.0	.0	.0	.0	.0	.0	4.4	3.3	1.8	.0	.0	.0	.0	.0	26	.0	9.5
-11/-13	.0	.0	.0	.0	.0	5.1	8.1	6.2	.4	.4	.0	.0	.0	.0	55	.7	19.4
-14/-16	.0	.0	.0	.7	3.7	7.0	1.1	.0	.4	.0	.0	.0	.0	.0	35	.0	12.8
-17/-19	.0	.0	.0	1.8	1.8	1.5	1.1	.4	.0	.0	.0	.0	.0	.0	18	.0	6.6
-20/-22	.0	.0	1.1	1.8	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	13	.0	4.8
-23/-25	.0	.0	1.1	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	7	.0	2.6
-26/-30	.0	.0	.7	.4	.4	.7	.0	.4	.0	.0	.0	.0	.0	.0	7	.0	2.6
<-30	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	2	0	8	35	64	69	39	27	9	2	1	2	1	273	4	269	
PCT	.7	.0	2.9	5.1	12.8	23.4	25.3	14.3	9.9	3.3	.7	.4	.7	.4	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	.6	.0	.0	.0	.6
3-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	1.6	.9	1.0	.0	3.5	.0	.0	.0	.6	.1	.0	.7
7	.0	.0	1.0	.9	.0	.0	1.9	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	1.5	1.2	.6	.0	3.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.9	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	8.3	6.3	1.6	.0	16.1	.0	.0	.7	.7	.1	.0	1.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-6	.0	.6	1.2	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.6	.6	.0	.0	1.2	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	.6	.4	.0	1.0	.0	.0	.0	.6	.1	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	1.7	3.2	.4	.0	6.5	.0	.6	.6	1.3	.1	.0	2.6

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0020 SAKHALIN ISLAND SE
48.8N 146.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.9	.0	.0	.0	.9	.0	1.2	.9	.0	.0	.0	2.0
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.0	3.6	.1	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.5
7	.0	.0	.6	.6	.0	.0	1.2	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.0	1.7	.0	.0	3.8	.0	2.5	6.4	2.5	.0	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.6	1.2	.0	.0	.0	2.8	.0	.7	3.6	.0	.0	.0	4.4	
3-4	.0	.4	4.5	.4	.0	.0	5.4	.0	.7	4.8	.6	.0	.0	6.1	
5-6	.0	.4	4.9	2.6	.4	.0	8.4	.0	1.2	3.8	2.3	.7	.0	8.0	
7	.0	.0	1.2	.0	.6	.0	1.7	.0	.0	3.1	3.2	.0	.0	6.3	
8-9	.0	.0	.6	1.2	.0	.0	1.7	.0	.0	.3	2.9	.0	.0	3.2	
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	1.7	.7	.0	.0	2.5	
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.6	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.5	12.9	6.4	1.6	.0	23.4	.0	3.2	17.3	11.6	1.3	.0	33.4	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	1.7	1.2	.0	.0	.0	4.7	
1-2	.0	3.5	9.3	.0	.0	.0	12.8	
3-4	.0	1.7	16.3	1.2	.0	.0	19.2	
5-6	.0	2.3	12.2	7.0	2.3	.0	23.8	
7	.0	.0	6.4	7.6	.6	.0	14.5	
8-9	.0	.0	2.3	7.0	1.2	.0	10.5	
10-11	.0	.0	2.3	4.7	.0	.0	7.0	
12	.0	.0	.0	3.5	.0	.0	3.5	
13-16	.0	.0	.0	1.7	.6	.0	2.3	
17-19	.0	.0	.0	1.2	.6	.0	1.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	9.3	50.0	33.7	5.2	.0	100.0	172

PERIOD: (OVER-ALL) 1959-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.5	5.9	5.5	3.5	1.6	1.6	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	5
6-7	.4	.4	3.1	3.9	4.7	4.7	2.7	.8	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	7
8-9	.0	.0	.4	1.2	3.1	2.0	.8	1.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	9
10-11	.0	.0	.0	2.0	.4	.0	.8	1.2	.8	.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	20	12
12-13	.0	.0	.8	1.2	.4	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.4	.4	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDET	1.6	2.0	4.3	7.8	7.1	4.3	2.4	.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	6
TOTAL	5	15	37	56	91	34	24	12	13	6	0	0	1	1	0	0	0	0	0	255	7
PCT	2.0	5.9	14.5	22.0	20.0	13.3	9.4	4.7	5.1	2.4	.0	.0	.4	.4	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	5.0	2.0	1.6	.2	15.6	.1	.0	24.2	3.0	.0	15.0	.9	.2	.3	56.4
NE	9.1	.3	2.2	.0	10.8	.0	.0	21.7	4.8	.0	16.8	.2	.6	.3	55.6
E	11.0	.2	4.7	.0	8.5	.3	.0	23.7	4.9	.0	16.1	.8	.1	1.2	53.2
SE	9.2	.2	3.1	.6	8.4	.0	.0	21.2	3.6	.0	20.0	.7	.9	.4	53.2
S	4.5	.2	3.6	.0	7.7	.0	.0	15.9	1.2	.0	16.2	.4	.6	.1	65.7
SW	3.1	.2	.8	.0	7.2	.0	.0	11.3	.9	.1	14.4	.1	.8	*	72.3
W	1.2	.1	.9	.0	7.0	.0	.0	9.0	2.2	.0	10.5	.5	.5	.3	77.1
NW	1.9	.3	1.3	.1	8.9	.4	.0	12.9	4.0	.0	12.6	.1	.4	1.1	68.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	.2	.5	.0	10.0	.0	.0	13.4	.6	.0	30.4	.9	.2	.0	54.5
TOT PCT	4.9	.3	1.7	.1	9.5	.1	.0	16.4	3.1	*	15.7	.5	.6	.4	63.2
TOT OBS:	5492														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOURL (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	4.0	.4	1.5	.1	10.0	.1	.0	15.8	3.1	.0	16.4	.5	1.0	.3	62.9
06009	4.5	.3	1.1	.1	9.3	.3	.0	15.5	3.0	.0	13.9	.7	.5	.8	65.7
12015	5.1	.1	2.1	.1	10.2	.3	.0	17.7	2.6	.1	14.4	.3	.2	.4	64.3
18021	5.6	.5	2.2	.1	8.9	.0	.0	17.0	4.0	.0	17.3	.6	.6	.3	60.2
TOT PCT	4.8	.3	1.7	.1	9.6	.2	.0	16.5	3.1	*	15.5	.5	.6	.5	63.4
TOT OBS:	5753														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	48+	7				00	03	06	09	12	15	18	21
N	.9	1	2.6	1.9	.0	*		13.2	13.3	13.8	13.2	14.6	11.1	10.7	10.0	15.6	13.1	
NE	1.2	.6	3.4	1.5	.4	*		10.0	12.8	8.6	12.2	9.0	7.4	10.3	9.2	10.3	10.3	
E	.9	.3	2.4	1.1	.1	*		7.4	12.3	8.9	5.3	5.6	4.1	8.4	8.8	8.1	9.5	
SE	1.1	.3	2.4	1.2	.0	*		10.2	12.8	10.9	10.4	11.0	9.7	10.8	10.1	11.4	8.2	
S	2.1	.1	1.1	.3	*			17.5	13.6	16.1	17.4	16.0	20.5	17.0	24.0	16.6	15.8	
SW	1.2	.1	1.1	.2	*			12.3	12.6	11.1	11.8	10.9	12.6	13.0	12.6	11.8	13.5	
W	1.1	.1	3.9	1.9	.4	*		11.5	12.9	11.6	7.9	12.4	11.1	11.1	13.7	11.5	11.7	
NW	.9	4.2	5.6	3.2	.5	*		14.5	13.1	14.7	17.7	16.4	21.9	14.0	10.8	10.8	15.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4							3.4	.0	4.2	4.1	4.2	1.6	4.6	.8	3.9	2.1	
TOT OBS								5378	12.8		1024	496	857	508	936	465	600	492
TOT PCT	12.9	36.8	34.1	13.4	2.7	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.0	5.3	3.4	1.4	.1		13.2	13.3	13.6	13.7	10.7	15.3	
NE	3.0	3.8	2.5	.5	.1		10.0	12.8	9.8	9.3	9.9	11.3	
E	2.7	2.8	1.5	.4	*		7.4	12.3	8.2	5.2	8.0	8.4	
SE	3.1	4.1	2.1	.9	*		10.2	12.8	10.9	10.3	10.3	8.8	
S	5.8	7.5	3.5	.7	.1		17.5	13.6	16.9	18.1	18.3	16.4	
SW	3.8	5.4	2.6	.4	.1		12.3	12.6	11.6	11.5	13.5	12.6	
W	2.9	4.7	2.9	.9	.1		11.5	12.9	10.5	12.1	11.9	12.2	
NW	3.1	5.2	4.5	1.6	.1		14.5	13.1	14.6	16.6	14.0	11.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.4						3.4	.0	4.0	3.2	3.3	3.3	
TOT OBS						5378		12.8	1520	1365	1401	1092	
TOT PCT	30.7	38.8	23.0	6.7	.7		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.0	8.6	36.9	35.1	13.5	1.9	.1	12.6	100.0	1520
06009	3.2	9.0	36.6	34.2	13.4	3.6	.0	13.1	100.0	1365
12015	3.3	9.4	37.4	33.7	12.9	2.9	.3	13.0	100.0	1401
18021	3.3	11.5	35.0	33.4	14.1	2.4	.3	12.7	100.0	1092
TOT								12.8		5378
PCT	3.4	9.5	36.8	34.1	13.4	2.7	.2	13.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.6	4.3	7.5		6.8
NE	.8	.4	2.2	6.1		6.8
E	.8	.3	1.7	5.9		6.7
SE	1.3	.5	1.7	7.0		6.5
S	3.4	1.1	3.0	8.0		5.9
SW	2.7	1.3	3.1	4.0		5.4
W	2.8	1.3	3.2	4.2		5.5
NW	2.6	1.6	5.5	6.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.3	.3	.6	2.2		5.1
TOT OBS					3151	6.0
TOT PCT	16.7	7.4	25.3	50.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	1.9	.2	.3	.9	3.1	2.8	1.3	.3	.3	.1	2.2	
NE	1.7	.1	.1	.6	1.6	2.9	.6	.1	.1	.1	1.5	
E	1.8	.1	.2	.3	1.6	2.3	.5	.0	.1	.1	1.4	
SE	2.7	*	.3	.3	1.5	2.7	.5	.1	.1	.1	2.3	
S	3.0	.3	.4	.7	1.4	2.7	.8	.1	.2	.3	5.5	
SW	1.8	.1	.1	.3	1.5	1.5	.7	.2	.3	.3	4.5	
W	1.0	.1	.2	.6	1.4	2.2	.9	.1	.1	.2	4.7	
NW	1.7	*	.1	.6	3.6	3.3	1.2	.2	.1	.1	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.1	*	*	.5	.5	*	*	.1	.1	1.7	
TOT OBS												3151
TOT PCT	17.1	.9	1.7	4.4	16.2	21.0	6.4	1.0	1.3	1.3	28.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >80YD	= OR >0
= OR >6000	1.6	2.3	2.4	2.7	2.7	2.7	2.7	2.7
= OR >5000	2.3	3.2	3.5	3.7	3.8	3.8	3.8	3.8
= OR >3000	5.8	8.4	9.5	9.9	10.1	10.3	10.3	10.3
= OR >2000	14.8	24.6	29.0	30.4	31.1	31.4	31.7	31.7
= OR >1000	19.4	34.8	42.0	44.7	46.3	46.8	47.4	47.5
= OR >600	20.4	37.1	45.3	48.7	50.4	51.1	51.7	51.8
= OR >300	20.6	37.9	46.7	50.2	52.2	52.9	53.5	53.6
= OR >150	20.9	38.5	47.4	50.9	53.0	53.6	54.3	54.4
= OR >0	21.4	39.9	50.6	55.7	59.2	64.1	70.5	71.5

TOTAL NUMBER OF OBS: 3293

PCT FREQ NH <5/8: 28.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.1	3.2	5.4	4.0	3.7	5.3	8.2	9.2	34.1	15.9	3577

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.4	.3	.3	.3	.3	.3	.4	.0	*	2.9	
	NO PCP	.4	.9	1.0	1.6	2.2	1.4	.4	.7	.0	.9	9.9	
	TOT %	1.3	1.3	1.3	1.9	2.5	1.8	.7	1.1	.0	.9	12.7	
1/2<1	PCP	.5	.3	.2	.2	.1	.1	.2	.6	.0	.1	2.2	
	NO PCP	.1	.2	.3	.3	.2	.2	.1	.1	.0	.1	1.6	
	TOT %	.6	.5	.4	.6	.3	.3	.3	.6	.0	.2	3.8	
1<2	PCP	.9	.5	.3	.3	.3	.2	.2	.6	.0	*	3.2	
	NO PCP	.3	.3	.2	.3	.3	.2	.1	.4	.0	.1	2.1	
	TOT %	1.2	.8	.5	.6	.5	.4	.3	1.0	.0	.1	5.3	
2<5	PCP	1.2	.9	.6	.5	.4	.2	.3	.5	.0	.1	4.6	
	NO PCP	1.0	1.1	.4	.8	.9	.4	.7	1.0	.0	.1	6.5	
	TOT %	2.1	2.0	1.0	1.3	1.4	.6	.9	1.5	.0	.2	11.1	
5<10	PCP	.6	.2	.4	.3	.5	.2	.1	.5	.0	*	3.0	
	NO PCP	2.2	1.9	1.6	2.2	3.3	2.4	2.1	3.4	.0	.6	19.6	
	TOT %	2.9	2.1	2.0	2.5	3.8	2.6	2.3	3.9	.0	.6	22.6	
10+	PCP	.1	.1	*	.1	*	*	.1	.1	.0	.0	.5	
	NO PCP	4.8	3.3	2.9	3.4	8.2	6.5	6.7	6.5	.0	1.7	43.9	
	TOT %	4.9	3.4	2.9	3.5	8.2	6.5	6.7	6.6	.0	1.7	44.5	
TOT OBS		19.0	10.1	8.1	10.3	16.8	12.0	11.4	14.7	.0	3.7	100.0	5460
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.3	.1	.2	.3	.3	.1	.1	.0	.8	2.4	
	4-10	.5	.4	.6	1.0	1.5	1.0	.5	.3	.0		5.8	
	11-21	.5	.4	.3	.5	.9	.7	.2	.4	.0		3.9	
	22+	.2	.2	.2	.4	.1	.1	.2	.3	.0		1.7	
	TOT %	1.4	1.3	1.3	2.1	2.7	2.0	1.0	1.2	.0	.8	13.8	
1/2<1	0-3	.1	.1	.1	.1	*	*	.0	*	.0	.2	.6	
	4-10	.2	.2	.1	.2	.2	.1	.1	*	.0		1.1	
	11-21	.2	.1	*	*	.2	*	.2	.2	.0		1.0	
	22+	.1	.1	.1	.3	*	*	.1	.3	.0		1.1	
	TOT %	.6	.5	.3	.5	.4	.3	.3	.6	.0	.2	3.7	
1<2	0-3	.1	.1	*	.1	.1	.1	.1	.2	.0	.2	.8	
	4-10	.2	.3	.2	.3	.4	.2	.1	.1	.0		1.7	
	11-21	.5	.3	.2	.1	.2	*	.2	.6	.0		2.1	
	22+	.5	.2	*	.2	.2	.2	*	.2	.0		1.5	
	TOT %	1.3	.9	.4	.7	.8	.4	.4	1.0	.0	.2	6.0	
2<5	0-3	.1	.2	*	.1	.2	.1	.1	*	.0	.2	1.0	
	4-10	.5	.7	.3	.4	.6	.4	.4	.5	.0		3.8	
	11-21	1.1	.7	.3	.3	.7	.2	.2	.6	.0		4.2	
	22+	.6	.6	.4	.7	.1	.1	.4	.6	.0		1.6	
	TOT %	2.3	2.2	1.0	1.4	1.6	.9	1.1	1.8	.0	.2	12.6	
5<10	0-3	.1	.1	.1	.2	.4	.1	.2	.2	.0	.5	2.0	
	4-10	.8	.6	.6	.9	1.2	1.0	.6	1.0	.0		6.7	
	11-21	1.2	.9	.7	1.0	1.6	.9	.8	1.5	.0		8.6	
	22+	.7	.4	.2	.2	.6	.3	.5	1.1	.0		4.0	
	TOT %	2.9	1.9	1.7	2.3	3.7	2.3	2.1	3.9	.0	.5	21.3	
10+	0-3	.4	.5	.5	.6	1.2	.6	.6	.4	.0	1.5	6.2	
	4-10	1.9	1.4	1.5	1.6	3.9	2.9	2.6	2.2	.0		18.0	
	11-21	2.0	1.2	.6	.9	2.7	2.4	2.2	2.2	.0		14.3	
	22+	.4	.2	.1	.2	.4	.4	1.2	1.2	.0		4.0	
	TOT %	4.7	3.3	2.6	3.3	8.2	6.3	6.6	6.1	.0	1.5	42.6	
TOT OBS		13.1	10.0	7.3	10.3	17.4	12.2	11.6	14.6	.0	3.4	100.0	5258
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	8500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	15.4	.6	2.4	4.2	16.8	25.0	6.2	.9	1.4	1.2	74.2	25.8	1073
06009	14.4	1.9	1.7	5.4	17.3	21.6	7.6	.9	1.2	1.7	73.8	26.2	907
12015	20.0	.1	1.5	3.0	14.1	17.4	6.3	1.2	1.4	.9	65.9	34.1	849
18021	19.5	.4	.9	4.2	16.2	18.5	4.7	1.2	1.1	1.6	68.3	31.7	552
TOT													3381
PCT	17.0	.8	1.8	4.3	15.9	21.0	6.4	1.1	1.4	1.3	71.0	29.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	13.1	4.2	5.2	11.6	20.8	45.2	1739
06009	12.6	3.4	6.4	10.4	19.3	47.9	1560
12015	14.2	3.8	7.0	14.4	22.0	38.6	1602
18021	15.2	3.9	5.7	15.0	24.7	35.4	1236
TOT							6137
PCT	13.7	3.8	6.1	12.7	21.5	42.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	15.4	22.1	36.8	38.9	24.2	1053
06009	14.7	21.2	35.5	39.8	24.8	886
12015	20.4	25.8	41.7	28.3	30.0	821
18021	19.2	24.3	41.8	30.3	27.9	533
TOT						3293
PCT	17.1	23.3	38.7	34.8	26.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.1	.0	.0	.0		.3
75/79	.0	.0	.0	.0	.0	.0	.1	.3		.4
70/74	.0	.0	.4	.0	.0	.1	.1	.1		.8
65/69	.0	.0	.0	.0	.0	.1	.0	.2		.3
60/64	.0	.7	.0	.0	.1	.4	.9	.2		2.3
55/59	.0	.0	2.0	.4	.7	.0	2.8	2.7		8.6
50/54	.0	.0	.5	.4	1.1	1.6	5.2	8.2		17.0
45/49	.0	.2	.0	.2	1.2	2.5	5.8	7.1		17.2
40/44	.0	.0	.0	1.2	1.8	2.5	1.4	6.9		13.9
35/39	.0	.0	.0	.0	.9	.9	2.9	5.6		10.2
30/34	.0	.0	.0	.2	2.0	1.9	2.6	7.2		14.0
25/29	.0	.0	.0	.5	1.3	3.8	2.8	1.6		10.0
20/24	.0	.0	.0	.5	.7	1.1	.7	.0		2.9
15/19	.0	.0	.0	.4	.6	1.1	.0	.0		2.1
TOTAL									362	100.0
PCT	.0	1.0	2.9	3.9	10.7	16.1	25.4	40.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.1	.2	.0	.0	.0	.0
75/79	.0	.0	.3	.0	.1	.0	.0	.0	.0
70/74	.1	.1	.1	.4	.1	.0	.0	.0	.0
65/69	.0	.0	.0	.3	.0	.0	.0	.0	.0
60/64	.2	.0	.4	.1	.6	.4	.2	.0	.0
55/59	.3	1.2	.8	.5	3.0	1.3	.7	.0	.7
50/54	2.4	1.5	3.4	2.8	1.4	2.3	1.3	1.5	.5
45/49	1.8	1.2	1.1	1.8	4.4	2.2	1.5	2.4	.7
40/44	1.2	1.4	2.4	2.0	2.0	1.1	2.6	1.0	.0
35/39	1.8	1.5	1.6	.5	1.2	1.3	1.2	1.2	.0
30/34	4.1	1.3	.6	1.0	.6	1.5	2.2	2.7	.0
25/29	4.0	1.8	.0	.0	.0	.4	1.6	2.2	.0
20/24	.7	.0	.0	.0	.2	.1	.6	1.2	.0
15/19	.2	.0	.0	.0	.0	.0	.2	1.8	.0
TOTAL	16.7	9.9	10.6	9.2	14.0	11.0	12.4	14.3	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	79	61	55	42	31	25	0	47.4	1737
06009	84	61	53	43	32	27	10	47.7	1567
12015	72	56	50	40	29	23	5	45.1	1604
18021	83	60	51	40	29	23	0	45.5	1247
TOT	84	60	53	41	31	24	0	46.5	6155

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	11.1	10.1	20.1	19.0	39.8	83	116		
06009	.0	11.9	14.0	13.3	31.4	29.3	83	88		
12015	.0	6.3	8.2	21.6	24.0	39.9	83	92		
18021	.0	5.1	13.9	7.5	31.8	41.6	85	77		
TOT	0	31	38	53	84	167	83	373		

JANUARY, APRIL - DECEMBER

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WU FNG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	*	.0	*	*	15	*	.2
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	9	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	*	*	*	11	*	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	.1	*	.1	*	*	*	*	28	.1	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.1	.2	.1	.1	*	*	*	66	.1	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.3	.1	.1	.1	.0	.0	107	.3	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.3	.4	.3	.3	.2	.2	*	*	*	*	139	.3	1.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.8	.6	.5	.3	.5	.2	.1	.0	.0	.0	227	1.0	2.5
6	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.1	.2	.2	.1	.1	.1	*	.0	.0	.0	86	.2	1.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.2	1.1	.5	.5	.7	.6	.1	.1	.0	.0	.0	304	1.0	4.1
4	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	1.3	.8	.7	.7	.6	.2	*	.0	.0	.0	410	1.5	5.5
3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.5	.2	.4	.4	.4	.3	.2	.1	.0	.0	.0	.0	194	.5	2.6
2	.0	.0	.0	.0	.0	.0	.0	.2	1.1	1.2	.5	1.9	1.1	1.5	.9	.7	.1	*	.0	.0	.0	575	2.2	7.0
1	.0	.0	.0	.0	.0	.0	.0	.3	.5	.7	.2	.5	.6	.6	.3	.2	*	.0	.0	.0	.0	224	.8	3.2
0	.0	.0	.0	.0	.0	.0	.1	1.2	2.2	1.0	.8	1.6	1.6	1.3	.8	.6	.1	*	.0	.0	.0	672	2.7	6.8
-1	.0	.0	.0	.0	.0	.0	.2	.4	.3	.3	.3	.5	.5	.3	.2	.1	*	.0	.0	.0	.0	195	.5	2.8
-2	.0	.0	.0	.0	.0	.0	.6	1.2	1.4	.7	.8	1.1	1.0	.9	.5	.4	.1	*	.0	.0	.0	474	1.5	7.1
-3	.0	.0	.0	.0	.0	.0	.1	.4	.7	.3	.3	.4	.4	.2	.1	*	*	.0	.0	.0	.0	139	.3	2.6
-4	.0	.0	.0	.0	.0	.0	.8	1.3	1.0	.5	.7	1.2	.6	.4	.4	.1	.0	.0	.0	.0	.0	347	.7	6.3
-5	.0	.0	.0	.0	.0	.1	.7	1.0	.5	.5	.6	.7	.3	.3	.2	.1	.0	.0	.0	.0	.0	235	.4	4.6
-6	.0	.0	.0	.0	.0	.1	.4	.2	.1	.1	.1	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	68	.1	1.4
-7/-8	.0	.0	.0	.0	.0	.2	1.3	.8	.5	.3	.4	.3	.1	.1	*	*	.0	.0	.0	.0	.0	178	.2	3.8
-9/-10	.0	.0	.0	.0	.1	.7	.9	.6	.3	.2	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	127	.2	3.1
-11/-13	.0	.0	.0	.0	1.1	1.3	1.1	.6	.3	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	187	.1	4.8
-14/-16	.0	.0	.1	.3	1.3	1.1	.7	.1	.1	.1	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	132	.2	3.9
-17/-19	.0	.0	.1	.7	.6	.3	.3	.2	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	69	.0	2.2
-20/-22	.0	.1	.3	.2	.4	.3	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	.0	1.5
-23/-25	.0	.1	.3	.1	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.0	1.0
-26/-30	.1	.3	.1	.1	*	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.9
<-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL																						5323		
PCT	.2	.4	.8	1.5	3.6	4.4	7.7	8.8	10.1	8.2	8.7	12.8	10.0	9.1	6.4	5.1	1.5	.8	.1	.1	.1	100.0	15.2	84.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.2	.0	.0	.0	2.3	<1	.1	1.2	.3	.0	.0	.0	1.5
1-2	.1	1.1	1.3	.0	.0	.0	2.5	1-2	.3	1.1	1.1	.0	.0	.0	2.5
3-4	.0	.2	2.1	.1	.0	.0	2.5	3-4	.0	.5	1.3	.2	.0	.0	2.1
5-6	.0	.1	1.5	.6	.2	.0	2.4	5-6	.0	.2	1.0	.3	*	.0	1.5
7	.0	*	.9	.4	.1	.0	1.4	7	.0	*	.5	.2	.0	.0	.8
8-9	.0	.0	.4	.4	.2	.0	1.0	8-9	.0	*	.1	.3	.1	.0	.6
10-11	.0	.0	.1	.3	*	.0	.6	10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.1	.1	.0	.1	12	.0	.0	.0	.1	*	.0	.2
13-16	.0	.0	.1	.2	.1	.0	.4	13-16	.0	.0	.1	.3	.2	.0	.6
17-19	.0	*	.0	*	*	.0	.1	17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.1	.0	.1	20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	*	.0	*	23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	6.6	2.3	.8	.0	13.4	TOT PCT	.4	3.0	4.6	1.5	.5	.0	10.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	*	.0	.0	.0	1.5	<1	.2	1.1	.2	.0	.0	.0	1.5
1-2	.1	1.0	1.0	.0	.0	.0	2.1	1-2	.0	1.4	1.4	.0	.0	.0	2.9
3-4	.0	.2	1.0	.3	.0	.0	1.5	3-4	.0	.6	1.3	.1	.0	.0	2.0
5-6	.0	.0	.4	.4	.0	.0	.8	5-6	.0	*	.8	.2	.0	.0	1.0
7	.0	.1	.3	.3	.1	.0	.8	7	.0	.0	.6	.5	.1	.0	1.2
8-9	.0	.0	.1	.3	*	.0	.5	8-9	.0	*	.1	.7	*	.0	.8
10-11	.0	.0	.1	.1	.0	.0	.2	10-11	.0	.0	.1	.5	*	.0	.6
12	.0	.0	.0	.0	*	.0	*	12	.0	*	.0	*	.0	.0	*
13-16	.0	.0	.1	.1	*	.0	.2	13-16	.0	*	*	.7	*	.0	.9
17-19	.0	.1	*	.0	.0	.0	.1	17-19	.0	*	.0	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	3.2	1.5	.2	.0	7.6	TOT PCT	.2	3.2	4.6	2.7	.2	.0	11.0

PERIOD: (OVER-ALL) 1963-1974

JANUARY, APRIL - DECEMBER

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.7	.3	.0	.0	.0		2.4	.2	1.3	.1	.0	.0	.0		1.6
1-2	.3	2.1	2.5	.0	.0	.0		4.9	.1	1.4	1.5	.0	.0	.0		2.9
3-4	.0	.7	2.6	.2	.0	.0		3.5	.0	.5	2.0	.1	.0	.0		2.7
5-6	.0	.1	1.4	.3	*	.0		1.8	.0	.1	.8	.1	.0	.0		1.1
7	.0	.1	1.0	.5	.0	.0		1.6	.0	*	.4	.8	.0	.0		1.2
8-9	.0	*	.2	.4	.1	.0		.6	*	.0	.1	.2	*	.0		.3
10-11	.0	.0	*	.1	.2	.0		.4	.0	.0	.3	.2	.2	.0		.6
12	.0	*	.0	*	.0	.0		.1	.0	.0	*	.2	*	.0		.3
13-16	.0	.0	.0	.2	*	*		.2	.0	.0	.0	.1	*	*		.2
17-19	.0	.0	*	.0	*	.0		.1	.0	*	.0	.0	*	.0		*
20-22	.0	.0	.0	*	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	*		*
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	4.7	8.1	1.8	.5	*		15.8	.3	3.3	5.3	1.7	.3	.1		10.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.9	.1	.0	.0	.0		1.1	.1	1.0	.1	.0	.0	.0		1.2	
1-2	.2	1.1	1.1	.0	.0	.0		2.3	.1	1.5	1.7	.0	.0	.0		3.2	
3-4	.0	.4	1.7	.1	.0	.0		2.2	.0	.8	2.1	.5	.0	.0		3.5	
5-6	.0	.3	1.2	1.1	*	.0		2.6	.0	.3	1.2	.9	.1	.0		2.4	
7	.0	.1	.6	.3	.1	.0		1.2	.0	.1	.9	.7	*	.0		1.7	
8-9	.0	*	.3	.3	.0	*		.7	.0	*	.4	.6	*	.0		1.0	
10-11	.0	.0	.2	.4	*	.0		.6	.0	.0	.5	.5	.1	.0		1.0	
12	.0	.0	.1	.2	.0	.0		.2	.0	*	.1	.2	.1	.0		.4	
13-16	.0	.0	.1	.1	.2	*		.4	.0	.0	.1	.3	.1	*		.4	
17-19	.0	.0	.0	.1	*	.0		.1	.0	.0	.0	.1	.1	.0		.3	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	*	.0		*	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	2.7	5.2	2.6	.4	.1		11.4	.2	3.7	6.9	3.9	.5	*		15.2	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	10.1	1.3	.0	.0	.0	17.7	
1-2	1.0	10.6	11.7	.0	.0	.0	23.3	
3-4	*	4.0	14.2	1.7	.0	.0	19.9	
5-6	.0	1.1	8.3	3.8	.3	.0	13.6	
7	.0	.3	5.3	3.7	.4	.0	9.7	
8-9	*	.1	1.6	3.2	.5	*	5.5	
10-11	.0	.0	1.4	2.4	.5	.0	4.3	
12	.0	.1	.2	.9	.2	.0	1.4	
13-16	*	*	.4	1.9	.7	.1	3.3	
17-19	.0	.2	.1	.3	.3	.0	.8	
20-22	.0	.0	*	*	.2	.0	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	*	.0	*	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	26.5	44.6	18.0	3.4	.2	100.0	2489

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	10.3	10.3	6.2	3.1	1.3	1.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1168	4
6-7	*	1.1	3.2	4.1	3.7	2.8	1.9	.4	1.3	*	*	.1	.0	.0	.0	.0	.0	.0	.0	618	6
8-9	*	.2	1.2	1.3	2.1	2.1	1.2	.6	1.2	.2	*	.0	*	.0	.0	.0	.0	.0	.0	291	8
10-11	.0	1.2	.3	.8	.6	.6	.4	.2	.3	.2	*	.0	*	.1	.0	.0	.0	.0	.0	164	7
12-13	.0	.0	1.3	.4	.2	.2	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	6
>13	.0	.0	.0	.2	.2	.2	.3	.1	.3	.2	.2	.1	*	*	.0	.0	.0	.0	.0	53	12
INDEX	7.1	5.2	5.6	3.1	2.4	1.5	1.2	.4	1.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	951	4
TOTAL PCT	8.1	18.1	21.9	16.2	12.4	8.6	6.2	2.0	4.5	1.0	.4	.4	.2	.1	.0	.0	.0	.0	.0	100.0	5

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	*
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	*
69/70	.0	.0	.0	.0	.0	.0	.1	.8	.3	.2	.0	.0	12	.2
67/68	.0	.0	.0	.0	.0	.0	.1	1.0	.5	.2	.0	.0	16	.3
65/66	.0	.0	.0	.0	.0	.0	.4	2.2	1.3	.2	.0	.0	38	.7
63/64	.0	.0	.0	.0	.0	.2	2.2	7.8	5.7	.2	.0	.0	150	2.6
61/62	.0	.0	.0	.0	.0	.2	4.3	10.1	8.9	.3	.0	.0	218	3.7
59/60	.0	.0	.0	.0	.4	.3	3.6	9.1	10.5	.5	.4	.0	218	3.7
57/58	.0	.0	.0	.0	.2	.7	5.7	11.0	14.1	1.9	.2	.4	298	5.1
55/56	.0	.0	.0	1.3	.2	1.7	7.9	12.3	14.8	4.1	.4	.4	364	6.2
53/54	.0	.0	.0	2.5	.2	3.7	10.0	15.6	14.6	7.1	.2	1.4	456	7.8
51/52	.0	.0	.0	2.5	.2	5.6	12.3	10.7	10.7	8.2	.9	.7	424	7.3
49/50	.0	.0	.0	1.3	.6	6.4	11.0	7.3	10.3	17.2	1.8	.0	443	7.6
47/48	.6	.0	.0	2.5	2.5	6.2	12.6	4.0	3.7	17.1	2.7	.7	389	6.7
45/46	2.5	.0	.0	1.3	4.6	17.9	17.7	4.6	2.9	24.3	9.9	2.1	646	11.1
43/44	1.8	.0	.0	1.3	9.2	16.4	5.1	1.1	1.1	10.5	14.1	1.4	410	7.0
41/42	1.2	.0	.0	2.5	5.7	12.5	3.7	.4	.1	4.5	13.2	3.5	294	5.0
39/40	3.1	.0	.0	5.0	17.0	11.4	1.2	.8	.1	1.1	16.5	7.1	329	5.6
37/38	6.2	.0	.0	11.3	15.3	7.2	.7	.2	.0	.8	14.8	14.8	293	5.0
35/36	11.7	.0	.0	23.8	21.6	5.6	.3	.4	.0	.2	11.2	22.6	324	5.5
33/34	25.3	.0	.0	25.0	13.9	2.6	.8	.3	.0	1.3	5.9	21.9	263	4.5
31/32	20.4	.0	.0	17.5	6.5	.7	.3	.4	.0	.3	5.7	17.0	170	2.9
29/30	22.8	.0	.0	2.5	1.5	.2	.0	.0	.0	.2	1.8	5.7	75	1.3
27/28	4.3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.5	.4	14	.2
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	162	0	0	80	476	885	982	1037	755	638	547	283	5846	100.0
MEAN	33.5			36.9	38.0	43.7	50.4	55.3	55.2	47.7	39.8	35.8	43.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DBS
JAN	1012	1011	1009	1012	1012	1002	1012	1012	1012	184
FEB										
MAR										
APR	1014	1011	1011	1009	1009	1010	1017	1010	1012	107
MAY	1011	1008	1010	1010	1011	1011	1011	1010	1010	539
JUN	1012	1010	1012	1009	1012	1009	1010	1008	1011	891
JUL	1011	1007	1012	1007	1013	1008	1009	1007	1010	999
AUG	1010	1008	1011	1008	1011	1009	1011	1009	1010	1058
SEP	1012	1009	1013	1011	1013	1011	1012	1010	1012	782
OCT	1013	1013	1013	1013	1013	1013	1013	1013	1013	642
NOV	1010	1009	1007	1007	1009	1011	1010	1011	1009	566
DEC	1007	1015	1009	1008	1009	1014	1006	1013	1008	314
ANN	1011	1010	1011	1009	1011	1010	1011	1010	1010	6082
DBS	1248	463	1056	488	1138	468	748	473		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	981	985	996	1006	1013	1018	1024	1026	1028
FEB									
MAR									
APR	978	978	995	1007	1011	1017	1025	1028	1029
MAY	977	986	994	1006	1011	1016	1024	1028	1029
JUN	984	991	999	1006	1011	1015	1022	1026	1032
JUL	983	989	997	1006	1010	1014	1020	1026	1030
AUG	983	992	998	1005	1010	1014	1020	1025	1030
SEP	979	983	998	1006	1012	1018	1025	1030	1032
OCT	972	992	999	1008	1013	1018	1025	1028	1032
NOV	974	978	990	1004	1010	1016	1024	1028	1032
DEC	973	981	988	1000	1008	1016	1024	1026	1028

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

JANUARY

AREA 0021 OKHOTSK SEA SE
52.8N 152.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	1.0	1.3	.0	.0	24.2	1.3	.0	26.5	5.6	.0	4.3	1.3	.0	.0	62.3
NE	.0	.0	.0	.0	23.7	.0	.0	23.7	.5	.0	1.1	.0	.0	.0	74.7
E	.0	.0	2.8	.0	19.0	.0	.0	21.8	2.1	.0	8.5	.0	.0	.0	67.6
SE	5.3	.0	.0	.0	22.7	.0	.0	22.7	1.3	.0	10.7	.0	5.3	5.3	54.7
S	.0	.0	.0	.0	18.4	.0	.0	18.4	.0	.0	.0	.0	.0	.0	81.6
SW	.0	.0	.0	.0	16.3	.0	.0	16.3	4.7	.0	4.7	.0	.0	.0	74.4
W	.0	.0	.0	.0	41.9	.0	.0	41.9	8.5	.0	7.7	.0	.0	.0	41.9
NW	.4	.0	.0	.0	34.5	.0	.0	34.9	5.9	.0	6.3	.0	.0	.0	52.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6	.3	.3	.0	27.7	.3	.0	28.5	4.6	.0	5.5	.3	.3	.3	60.5
TOT OBS:	347														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	1.0	.0	.0	.0	23.0	.0	.0	24.0	3.0	.0	6.0	.0	1.0	.0	66.0
06009	1.0	.0	.0	.0	28.9	1.0	.0	29.9	6.2	.0	8.2	.0	.0	.0	55.7
12015	.0	1.0	.0	.0	30.3	.0	.0	30.3	6.1	.0	4.0	.0	.0	1.0	58.6
18021	.0	.0	1.1	.0	27.8	.0	.0	28.9	3.3	.0	2.2	1.1	.0	.0	64.4
TOT PCT	.5	.3	.3	.0	27.5	.3	.0	28.2	4.7	.0	5.2	.3	.3	.3	61.1
TOT OBS:	386														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	3.2	10.7	7.2	.5	.0		21.5	19.5	20.3	.0	19.3	.0	25.7	.0	21.5	.0	
NE	.0	3.4	4.9	4.0	.7	.0		13.0	18.4	13.8	.0	14.4	.0	13.2	.0	10.8	.0	
E	.3	2.6	4.4	1.5	1.2	.3		10.3	18.8	10.6	.0	12.1	.0	9.9	.0	8.5	.0	
SE	.3	.6	2.8	1.6	.4	.0		5.7	19.5	3.1	25.0	3.4	.0	8.2	.0	8.2	.0	
S	.0	1.0	1.2	.2	.0	.0		2.4	15.8	3.4	75.0	2.0	.0	.0	.0	3.2	.0	
SW	.0	1.	3.6	1.1	.0	.0		6.6	15.7	10.3	.0	2.9	.0	7.2	.0	6.3	.0	
W	.0	1.2	10.3	6.9	1.2	.0		19.6	21.5	17.8	.0	21.6	.0	21.4	.0	17.7	.0	
NW	.6	2.5	10.4	4.1	.8	.0		18.4	18.4	18.1	.0	23.3	.0	10.5	.0	21.2	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5							2.5	.0	2.5	.0	1.1	.0	3.9	.0	2.5	.0	
TOT OBS	12	53	156	86	15	1	323		18.6	80	1	87	0	76	0	79	0	
TOT PCT	3.7	16.4	48.3	26.6	4.6	.3		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	.8	7.7	10.0	2.8	.2			21.5	19.5	20.1	19.3	25.7	21.5		
NE	1.2	5.4	3.7	2.6	.0			13.0	18.4	13.6	14.4	13.2	10.8		
E	1.9	3.5	2.9	.9	1.2			10.3	18.8	10.5	12.1	9.9	8.5		
SE	.3	2.4	1.6	1.2	.1			5.7	19.5	3.4	3.4	8.2	8.2		
S	.0	1.0	1.4	.0	.0			2.4	15.8	4.3	2.0	.0	3.2		
SW	.3	3.3	2.9	.1	.0			6.6	15.7	10.2	2.9	7.2	6.3		
W	.3	5.1	9.3	4.9	.0			19.6	21.5	17.6	21.6	21.4	17.7		
NW	1.4	7.8	5.9	2.9	.4			18.4	18.4	17.9	23.3	10.5	21.2		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	2.5							2.5	.0	2.5	1.1	3.9	2.5		
TOT OBS	28	117	122	50	6	323			18.6	81	87	76	79		
TOT PCT	8.7	36.2	37.8	15.5	1.9			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

JANUARY

AREA 0021 OKHOTSK SEA SE
52.8N 152.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.5	2.5	19.8	46.9	22.2	6.2	.0	18.1	100.0	81
06009	1.1	.0	20.7	46.0	25.3	6.9	.0	18.6	100.0	87
12015	3.9	.0	19.8	48.7	30.3	.0	1.3	18.4	100.0	76
18021	2.5	2.5	8.9	51.9	29.1	5.1	.0	19.5	100.0	79
TOT	8	4	53	156	86	15	1	18.6		323
PCT	2.5	1.2	16.4	48.3	26.6	4.6	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	2.8	7.3	10.2		6.1
NE	1.5	1.8	4.2	5.0		5.8
E	1.0	.0	5.1	4.9		6.4
SE	.7	.0	1.4	4.1		6.8
S	.0	.0	2.5	1.0		6.6
SW	.4	.5	3.2	1.6		5.9
W	.4	.6	8.4	8.2		6.9
NW	1.7	2.0	9.	7.0		6.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.7	.7		5.4
TOT OBS	21	21	114	116	272	6.3
TOT PCT	7.7	7.7	41.9	42.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	399	999	1999	3499	4999	6499	7999			
N	2.9	.0	.4	.4	4.8	6.9	1.1	.0	.0	.3	5.3	
NE	.5	.0	.4	1.5	2.7	3.1	.6	.0	.0	.1	3.8	
E	1.8	.0	.0	.7	2.7	3.6	.8	.0	.0	.0	1.3	
SE	1.1	.0	.0	.4	1.4	2.0	.6	.0	.0	.0	.8	
S	.0	.0	.0	.0	1.0	1.2	.6	.0	.0	.0	.6	
SW	.7	.0	.0	.4	1.1	1.1	.4	.0	.4	.0	1.6	
W	.6	.0	.0	.3	6.4	8.5	.0	.0	.0	.3	1.3	
NW	1.8	.0	.0	1.6	5.7	5.5	.4	.0	.0	.5	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.7	.4	.4	.0	.0	.0	.4	
TOT OBS	26	0	2	14	72	88	13	0	1	3	93	272
TOT PCT	9.6	.0	.7	5.1	26.5	32.4	4.8	.0	.4	1.1	19.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.7	1.4	1.7	1.7	1.7	1.7	1.7	1.7
OR >5000	.7	1.4	1.7	1.7	1.7	1.7	1.7	1.7
OR >3500	3.8	4.9	5.9	6.6	6.6	6.6	6.6	6.6
OR >2000	16.7	28.1	36.5	39.6	39.6	39.6	39.6	39.6
OR >1000	21.9	40.3	54.9	61.5	64.2	64.2	65.6	65.6
OR >600	22.2	43.1	59.0	65.6	68.8	68.8	70.5	70.5
OR >300	22.2	43.4	59.7	66.3	69.8	69.8	71.5	71.5
OR >150	22.2	43.4	59.7	66.3	69.8	69.8	71.5	71.5
OR >0	22.2	44.1	63.2	71.9	77.1	78.5	81.3	81.3
TOTAL	64	127	182	207	222	226	234	234

TOTAL NUMBER OF OBS: 288

PCT FREQ NH <5/8: 18.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.4	.6	3.2	4.1	5.3	8.5	14.4	14.1	37.0	8.5	341

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1956-1974

JANUARY

AREA 0021 OKHOTSK SEA SE
52.8N 152.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.0	.0	.6	.0	.0	.3	3.2	1.3	.0	.0	6.6	
	NO PCP	.2	.1	.6	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	1.2	.1	1.1	.0	.0	.3	3.2	1.3	.0	.0	7.4	
1/2<1	PCP	1.1	.9	.6	.0	.0	.1	1.3	.4	.0	.0	4.3	
	NO PCP	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.6	
	TOT %	1.1	.9	.8	.1	.0	.4	1.3	.4	.0	.0	4.9	
1<2	PCP	1.0	.7	.4	.1	.0	.6	1.9	1.6	.0	.0	6.3	
	NO PCP	.3	.0	.0	.0	.3	.3	.0	.3	.0	.0	1.1	
	TOT %	1.3	.7	.4	.1	.3	.9	1.9	1.9	.0	.0	7.4	
2<5	PCP	2.1	1.8	.9	1.1	.5	.4	1.9	2.2	.0	.0	10.9	
	NO PCP	1.4	.4	.6	1.1	.3	.0	2.1	3.1	.0	.3	9.4	
	TOT %	3.5	2.2	1.5	2.3	.8	.4	4.0	5.4	.0	.3	20.3	
5<10	PCP	.8	.0	.0	.0	.0	.0	.2	.4	.0	.0	1.4	
	NO PCP	5.1	4.5	3.0	1.0	.4	3.3	6.4	3.8	.0	.3	27.7	
	TOT %	5.9	4.5	3.0	1.0	.4	3.3	6.6	4.2	.0	.3	29.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	8.9	5.1	3.6	1.9	1.2	1.3	2.6	4.6	.0	1.7	30.9	
	TOT %	8.9	5.1	3.6	1.9	1.2	1.3	2.6	4.6	.0	1.7	30.9	
TOT OBS													350
TOT PCT													
		21.8	13.6	10.4	5.4	2.7	6.4	19.5	17.9	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.6	
	11-21	.2	.1	.3	.0	.0	.0	.9	.4	.0	.0	1.9	
	22+	.2	.0	.6	.0	.0	.3	2.7	.9	.0	.0	4.8	
	TOT %	.8	.1	1.3	.0	.0	.3	3.6	1.3	.0	.0	7.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.0	.0	.0	.0	.3	.0	.0	.0	.6	
	11-21	1.0	.0	.3	.0	.0	.1	.5	.1	.0	.0	1.9	
	22+	.0	.3	.3	.0	.0	.3	.0	.3	.0	.0	1.3	
	TOT %	1.2	.4	.6	.0	.0	.4	.8	.4	.0	.0	3.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0	1.0	
	11-21	.3	.3	.2	.1	.0	.3	1.4	1.4	.0	.0	4.2	
	22+	1.1	.1	.0	.0	.0	.0	.6	.7	.0	.0	2.6	
	TOT %	1.4	.7	.2	.1	.0	1.0	2.1	2.2	.0	.0	7.7	
2<5	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.6	
	4-10	.6	.3	.6	.2	.2	.0	.0	1.0	.0	.0	2.9	
	11-21	2.2	.7	.9	.7	.6	.4	2.4	2.9	.0	.0	10.9	
	22+	.8	1.1	.0	1.3	.0	.0	.9	1.4	.0	.0	5.4	
	TOT %	3.6	2.2	1.4	2.5	.9	.4	3.3	5.3	.0	.3	19.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.6	
	4-10	.2	1.0	.6	.0	.0	.3	1.0	.7	.0	.0	3.8	
	11-21	2.3	1.4	1.3	.7	.2	2.3	3.8	2.0	.0	.0	14.1	
	22+	2.7	2.0	.9	.4	.0	.3	2.0	1.0	.0	.0	9.3	
	TOT %	5.3	4.3	2.8	1.1	.2	3.0	6.8	4.0	.0	.3	27.9	
10+	0-3	.0	.0	.3	.0	.0	.0	.0	.3	.0	1.9	2.6	
	4-10	1.9	1.8	1.2	.5	.8	1.0	.0	.5	.0	.0	7.7	
	11-21	4.7	2.5	1.3	1.3	.3	.3	1.4	3.6	.0	.0	15.4	
	22+	3.0	.7	.9	.4	.2	.2	1.5	.7	.0	.0	7.7	
	TOT %	9.7	5.0	3.7	2.2	1.4	1.4	2.9	5.1	.0	1.9	33.2	
TOT OBS													312
TOT PCT													
		22.0	12.7	10.1	5.8	2.5	6.5	19.5	18.3	.0	2.6	100.0	

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974AREA 0021 OKHOTSK SEA SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.1	.0	1.2	2.4	26.8	37.8	4.9	.0	.0	2.4	81.7	18.3	82
06009	7.0	.0	.0	5.8	27.9	34.9	5.8	.0	.0	1.2	82.6	17.4	86
12015	11.9	.0	1.5	3.0	25.4	26.9	3.0	.0	.0	.0	71.6	28.4	67
18021	15.9	.0	1.6	7.9	22.2	27.0	4.8	.0	1.6	1.6	82.5	17.5	63
TOT	29	0	3	14	77	96	14	0	1	4	238	60	298
PCT	9.7	.0	1.0	4.7	25.8	32.2	4.7	.0	.3	1.3	79.9	20.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.7	9.6	6.7	10.6	27.9	38.5	104
06009	8.2	2.1	8.2	25.8	26.8	28.9	97
12015	5.0	5.9	9.9	25.7	30.7	23.8	101
18021	6.7	2.2	8.9	20.0	34.4	27.8	90
TOT	26	20	32	80	117	117	392
PCT	6.6	5.1	8.2	20.4	29.8	29.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.3	13.8	32.3	52.3	15.0	80
06009	6.2	9.9	42.0	44.4	13.6	81
12015	12.3	18.5	49.2	24.6	26.2	65
18021	16.1	22.6	48.4	35.5	16.1	62
TOT	28	45	122	116	50	288
PCT	9.7	15.6	42.4	40.3	17.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.0	.0	3.6	1	3.6
35/39	.0	.0	.0	.0	.0	3.6	.0	.0	1	3.6
25/29	.0	.0	.0	.0	.0	.0	.0	3.6	1	3.6
20/24	.0	.0	.0	.0	.0	3.6	25.0	8	28.6	
15/19	.0	.0	.0	.0	.0	3.6	21.4	7	25.0	
10/14	.0	.0	.0	.0	.0	3.6	21.4	7	25.0	
5/9	.0	.0	.0	.0	.0	.0	10.7	3	10.7	
TOTAL	0	0	0	0	1	3	24	28	100.0	
PCT	.0	.0	.0	.0	.0	3.6	10.7	85.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
35/39	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0
25/29	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0
20/24	.0	.0	9.8	1.8	2.7	10.7	3.6	.0	.0	.0
15/19	.0	10.7	8.9	1.8	.0	.0	2.7	.9	.0	.0
10/14	7.1	.9	2.7	.0	.0	.0	9.8	4.5	.0	.0
5/9	.0	3.6	.0	.0	.0	.0	3.6	3.6	.0	.0
TOTAL	7.1	18.8	25.0	3.6	6.3	10.7	19.6	8.9	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	37	35	19	6	1	1	18.9	102
06009	37	35	34	19	5	-1	-1	18.9	95
12015	48	39	34	17	4	1	1	18.4	99
18021	53	41	35	19	5	-3	-3	19.3	88
TOT	53	39	34	18	5	0	-3	18.9	384

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	37.5	62.5	94	8
06009	.0	.0	.0	.0	.0	100.0	96	7
12015	.0	.0	.0	14.3	.0	85.7	95	7
18021	.0	.0	.0	.0	.0	100.0	94	6
TOT	0	0	0	1	3	24	95	28

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

JANUARY

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52.0N 152.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	M FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.7
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	2	.0	.7
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	3	.0	1.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	1.7	.3	.0	.0	.0	6	.0	2.0
1	.0	.0	.0	.0	.0	.0	.3	1.0	.0	.0	.0	.0	4	.0	1.3
0	.0	.0	.0	.0	.0	.0	.3	1.3	.0	.0	.0	.0	5	.0	1.7
-1	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	9	.0	3.0
-2	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	4	.3	1.0
-3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	2	.3	.3
-4	.0	.0	.0	.0	.0	.0	2.7	.3	.0	.0	.0	.0	9	1.0	2.0
-5	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	7	.0	2.3
-6	.0	.0	.0	.0	.0	.3	1.0	.3	.0	.0	.0	.0	5	.0	1.7
-7/-8	.0	.0	.0	.0	.0	3.7	2.3	1.0	.0	.0	.0	.0	21	.0	7.0
-9/-10	.0	.0	.0	.0	.3	2.3	3.0	1.0	.3	.0	.0	.0	21	.3	6.7
-11/-13	.0	.0	.0	.0	.0	3.7	9.0	.0	.7	.0	.0	.0	40	.0	13.3
-14/-16	.0	.0	.0	5.0	6.0	.3	.3	.0	.0	.0	.0	.0	35	.0	11.7
-17/-19	.0	.0	3.3	6.3	1.3	.3	.0	.0	.0	.0	.0	.0	34	.3	11.0
-20/-22	.0	.7	6.3	3.3	.3	.0	.0	.0	.0	.0	.0	.0	31	.3	10.0
-23/-25	.3	3.7	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.3	9.3
-26/-30	1.0	4.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.7	6.3
<-30	1.7	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	7	.3	2.0
TOTAL	9	25	52	45	35	49	31	30	15	5	2	2	300	12	288
PCT	3.0	8.3	17.3	15.0	11.7	16.3	10.3	10.0	5.0	1.7	.7	.7	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.0	2.1	1.9	.0	.0	.0	4.0	.0	.0	.5	.0	.0	.0	.0	.0	1.3
3-4	.0	.9	4.8	.8	.0	.0	6.4	.0	.0	.5	1.9	.0	.0	.0	.0	2.4
5-6	.0	.0	2.9	.4	.0	.0	3.3	.0	.0	.4	.2	.4	.0	.0	.0	1.0
7	.0	.4	1.4	3.3	.0	.0	5.1	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.3	.4	.0	.0	.7	.0	.0	.1	.9	.8	.0	.0	.0	1.7
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	1.1	.6	.0	2.0	.0	.0	.0	.5	.4	.1	.0	.0	1.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	11.7	7.2	.6	.0	22.9	.0	1.8	4.2	3.3	.1	.0	.0	.0	9.4

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.2	.0	.0	.0	.0	1.5	.0	.0	.1	.0	.0	.0	.0	.0	.1
1-2	.0	1.8	.6	.0	.0	.0	2.4	.0	.0	.5	1.3	.0	.0	.0	.0	1.8
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.1	.5	1.2	.0	.0	.0	1.7
5-6	.0	.0	.8	1.1	.0	.0	1.8	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.3	.0	.4	.4	.0	1.3	.0	.0	.0	.8	.0	.0	.0	.0	.8
10-11	.0	.0	.4	.0	.3	.0	.7	.0	.0	.0	.0	.4	.1	.0	.0	.5
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	4.4	1.4	1.4	.0	11.0	.0	.7	2.6	2.0	.5	.0	.0	.0	5.8

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0021 OKHOTSK SEA SE
52.8N 152.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.4	.0	.0	.0	.8	.0	1.2	.5	.0	.0	.0	1.6
3-4	.0	.3	.4	.0	.0	.0	.7	.0	.4	.8	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.4	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.4	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.2	.3	.0	.0	2.4	.0	1.5	2.6	1.3	.0	.0	5.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.4	.0	.0	.0	.8	.8	.4	.8	.0	.0	.0	1.9	
1-2	.0	.0	1.4	.0	.0	.0	1.4	.0	.5	1.5	.0	.0	.0	2.0	
3-4	.0	1.2	1.3	.0	.0	.0	2.5	.0	1.0	3.2	.0	.0	.0	4.1	
5-6	.0	.0	3.0	1.1	.0	.0	4.0	.0	.0	2.4	.4	.0	.0	2.8	
7	.0	.0	2.1	1.3	.0	.0	3.5	.0	.0	1.3	1.4	.0	.0	2.8	
8-9	.0	.0	2.3	3.0	.4	.0	5.7	.0	.0	1.2	1.3	.0	.0	2.4	
10-11	.0	.0	.4	1.1	.0	.0	1.4	.0	.0	.8	.1	.0	.0	.9	
12	.0	.0	.7	.7	.8	.0	2.1	.0	.0	.1	.6	.1	.0	.8	
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.4	.3	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	11.6	7.1	1.4	.0	21.7	.8	1.8	11.3	4.2	.6	.0	18.7	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	2.7	1.2	.0	.0	.0	7.3	
1-2	.0	6.9	8.5	.0	.0	.0	15.4	
3-4	.0	4.2	15.0	1.9	.0	.0	21.2	
5-6	.0	.4	9.6	3.5	.0	.0	13.5	
7	.0	.4	5.4	7.7	.0	.0	13.5	
8-9	.0	.4	6.5	6.2	.8	.0	13.8	
10-11	.4	.0	1.5	2.3	.4	.0	4.6	
12	.0	.0	1.9	3.1	1.5	.0	6.5	
13-16	.0	.0	.0	1.2	1.9	.0	3.1	
17-19	.0	.0	.0	.8	.0	.0	.8	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	15.0	49.6	16.9	4.6	.0	100.0	260

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	3.9	10.6	7.3	2.1	2.1	1.2	.3	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	5
6-7	.0	1.5	1.5	3.9	7.3	5.8	1.5	1.5	.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	80	7
8-9	.0	.0	.0	.6	1.5	3.0	.9	2.1	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	10
10-11	.0	1.2	.0	.3	.3	.6	.3	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	13	8
12-13	.0	.0	.9	.3	.0	.0	.3	.6	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	9	10
>13	.0	.0	.0	.3	.3	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	3.3	2.4	5.5	2.4	5.2	5.8	1.5	.0	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	6
TOTAL	14	30	61	50	53	37	19	18	15	4	6	0	1	0	0	0	0	0	0	330	7
PCT	4.2	9.1	18.5	15.2	16.7	17.3	5.8	5.5	4.5	1.2	1.8	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1941-1974

FEBRUARY

AREA 0021 OKHOTSK SEA SE
52.6N 154.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.5	.0	.0	36.8	.0	.0	36.8	1.5	.0	2.0	.5	.5	.7	57.9
NE	.0	.3	.0	.0	21.0	.0	.0	21.0	1.5	.0	1.2	.0	.0	.0	76.3
E	.0	.0	.0	.0	24.8	.0	.0	24.8	6.4	.0	4.0	.0	.0	.0	64.9
SE	.0	.0	.0	.0	36.0	.0	.0	36.0	3.4	.0	4.3	.0	.0	.0	56.2
S	7.8	.0	3.9	.0	30.1	.0	.0	37.9	2.9	.0	6.8	.0	.0	.0	52.4
SW	3.9	3.9	7.8	.0	24.5	.0	.0	36.3	4.9	.0	2.0	.0	.0	.0	56.9
W	1.5	.0	.0	.0	38.5	1.5	.0	41.5	4.0	.0	1.1	.0	1.5	2.5	49.5
NW	.0	.0	.0	.0	42.7	.0	.0	42.5	3.0	.0	1.7	.2	1.7	.9	49.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	5.9	.0	.0	5.9	5.9	.0	.0	.0	.0	.0	88.2
TOT PCT OBS:	.7	.4	.5	.0	33.1	.2	.0	34.3	3.0	.0	2.1	.2	.7	.7	58.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.5	.0	.5	.0	29.1	.0	.0	29.6	3.6	.0	5.6	.5	.0	1.5	59.2
06009	1.2	.0	.0	.0	28.0	.0	.0	29.3	3.7	.0	.6	.0	1.8	1.8	62.8
12015	.7	.7	.7	.0	39.3	.7	.0	40.7	2.7	.0	2.0	.0	.7	1.3	52.7
18021	.0	.8	.8	.0	34.1	.0	.0	35.7	3.2	.0	.8	.0	.8	.0	59.5
TOT PCT	.6	.3	.5	.0	32.2	.2	.0	33.3	3.3	.0	2.5	.2	.8	1.3	58.6
TOT OBS:	636														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	9.2	9.8	3.6	.7	.2		23.7	15.4		20.5	39.3	28.1	28.6	22.7	33.3	21.9	.0
NE	.3	5.0	8.9	1.7	.2	.0		15.7	14.1		15.0	16.1	16.5	15.9	13.6	.0	18.1	25.0
E	.2	4.1	2.8	2.1	.0	.0		9.2	14.1		17.5	12.5	7.4	.0	7.0	.0	14.7	.0
SE	.0	.8	2.1	1.3	.0	.0		4.3	18.2		4.0	7.1	2.5	.0	4.5	.0	3.8	37.5
S	.2	1.6	2.4	1.1	.0	.0		5.3	15.0		5.6	.0	3.8	13.6	3.7	.0	6.9	.0
SW	.3	1.7	2.3	.9	.0	.0		5.2	14.6		4.7	7.1	7.6	4.5	3.0	.0	5.0	12.5
W	.2	3.1	6.0	2.6	.5	.0		12.4	16.9		13.0	7.1	9.2	9.1	16.4	25.0	10.0	25.0
NW	.1	4.0	12.0	3.4	1.4	.2		21.0	18.1		23.0	10.7	19.6	18.2	24.3	41.7	18.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0		3.6	.0	5.4	.0	2.7	.0	1.3	.0
TOT OBS	21	141	218	80	14	2	476		15.4		138	14	112	11	110	3	80	8
TOT PCT	4.4	29.6	45.8	16.8	2.9	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	3.6	11.3	5.8	2.7	.2		23.7	15.4	22.2	29.1	23.0	19.9
NE	2.0	9.1	3.9	.7	.0		15.7	14.1	15.1	16.5	14.3	18.8
E	1.4	4.5	2.8	.6	.0		9.2	14.1	10.7	6.7	6.9	13.4
SE	.4	1.4	1.9	.6	.0		4.3	18.2	4.3	2.2	4.4	6.8
S	.5	2.9	1.6	.3	.0		5.3	15.0	5.1	4.7	5.5	6.3
SW	1.1	1.8	2.0	.3	.0		5.2	14.6	4.9	7.3	2.9	5.7
W	1.1	5.4	4.9	1.1	.0		12.4	16.9	12.5	9.1	16.6	11.4
NW	1.5	8.6	8.4	2.2	.4		21.0	18.1	21.9	19.5	24.8	16.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	3.3	4.9	2.7	1.1
TOT OBS	70	214	149	40	3	476		15.4	132	123	113	88
TOT PCT	14.7	45.0	31.3	8.4	.6		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1941-1974AREA 0021 OKHOTSK SEA SE
52.6N 154.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.3	1.3	31.6	39.5	20.4	3.9	.0	15.2	100.0	152
06009	4.9	2.4	23.6	55.3	13.0	.8	.0	14.6	100.0	123
12015	2.7	.0	31.9	43.4	15.9	4.4	1.8	16.6	100.0	113
18021	1.1	1.1	31.8	46.6	17.0	2.3	.0	15.2	100.0	88
TOT	15	6	141	210	80	14	2	15.4		476
PCT	3.2	1.3	29.6	45.0	16.8	2.9	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	3.0	6.4	11.0		6.1
NE	3.6	1.4	3.0	5.9		3.3
E	1.1	.7	2.8	4.3		6.1
SE	.2	.3	1.3	2.6		6.7
S	.2	.4	1.7	2.8		6.8
SW	.3	.5	1.8	2.4		6.7
W	.2	1.2	4.3	6.4		6.7
NW	2.6	3.4	5.9	12.6		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.6	.9	.5	.5		3.0
TOT OBS	55	51	121	213	440	6.1
TOT PCT	12.5	11.6	27.5	48.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

BY WIND DIRECTION						AND ACCURACY OF NH 4/5/8 BY WIND DIRECTION												
WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH 4/5/8 ANY HGT	TOTAL OBS
N	2.8	3.0	6.4	11.0		6.1	3.0	.0	.2	.3	3.4	3.6	1.5	.5	1.5	1.3	8.0	
NE	3.6	1.4	3.0	5.9		5.3	.6	.0	.2	.4	1.8	3.2	.9	.0	.5	.1	6.1	
E	1.1	.7	2.8	4.3		6.1	.2	.0	.2	1.0	.2	2.6	.9	.0	.0	.4	3.4	
SE	.2	.3	1.3	2.6		6.7	.1	.0	.3	.5	.2	1.8	.1	.2	.0	.2	.9	
S	.2	.4	1.7	2.8		6.8	1.2	.0	.4	.0	1.4	.6	.4	.0	.0	.3	.7	
SW	.3	.5	1.8	2.4		6.7	1.0	.0	.0	.2	1.2	1.4	.2	.0	.0	.1	.7	
W	.2	1.2	4.3	6.4		6.7	2.1	.0	.2	.6	4.3	2.5	.5	.2	.4	.0	1.4	
NW	2.6	3.4	5.9	12.6		6.2	3.2	.0	.5	1.1	3.8	5.9	1.3	.2	1.0	.5	7.0	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6	.9	.5	.5		3.0	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.5	
TOT OBS	55	51	121	213	440	6.1	51	0	9	18	74	95	25	5	15	13	135	440
TOT PCT	12.5	11.6	27.5	48.3	100.0		11.6	.0	2.0	4.1	16.8	21.6	5.7	1.1	3.4	3.0	30.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.2	3.3	5.1	5.7	5.7	5.7	5.7	5.7
= OR >4000	2.5	4.1	6.3	7.0	7.0	7.0	7.0	7.0
= OR >3500	4.5	7.6	11.0	12.3	12.5	12.5	12.5	12.5
= OR >2000	12.7	20.2	29.0	31.7	32.7	32.7	33.3	33.3
= OR >1000	15.3	26.8	38.9	45.2	48.3	48.3	49.7	49.7
= OR >600	15.5	27.6	39.9	47.6	52.1	52.6	54.2	54.2
= OR >300	16.0	28.6	41.3	49.5	54.4	55.0	56.6	56.6
= OR >150	16.0	28.6	41.3	49.5	54.4	55.0	56.9	56.9
= OR >0	16.2	30.3	46.4	56.4	64.2	65.8	69.3	69.3
TOTAL	79	148	227	276	314	322	339	339

TOTAL NUMBER OF OBS: 489

PCT FREQ NH <5/8: 30.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.7	2.9	5.7	5.9	5.9	5.9	11.3	8.4	35.4	10.9	559

FEBRUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1941-1974AREA 0021 OKHOTSK SEA SE
52.6N 154.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.1	.7	.4	.2	.2	.0	.4	1.7	.0	.2	5.0	
	NO PCP	.0	.0	.0	.0	.3	.1	.3	.2	.0	.0	.9	
	TOT %	1.1	.7	.4	.2	.5	.1	.7	2.0	.0	.2	5.9	
1/2<1	PCP	.5	.4	.0	.7	.9	.7	1.2	2.0	.0	.0	6.4	
	NO PCP	.4	.2	.0	.0	.0	.0	.2	.3	.0	.2	1.3	
	TOT %	1.0	.5	.0	.7	.9	.7	1.4	2.3	.0	.2	7.7	
1<2	PCP	2.8	.7	.8	.2	.0	.4	1.7	3.0	.0	.0	9.7	
	NO PCP	.4	.4	.0	.1	.2	.1	.7	.0	.0	.0	2.0	
	TOT %	3.2	1.1	.8	.2	.1	.6	1.8	3.8	.0	.0	11.6	
2<5	PCP	3.5	.8	.6	.3	.5	.2	1.0	2.4	.0	.0	9.3	
	NO PCP	2.0	1.8	.5	.2	.2	.4	1.3	2.4	.0	.0	8.8	
	TOT %	5.5	2.6	1.1	.5	.7	.6	2.3	4.8	.0	.0	18.1	
5<10	PCP	1.0	.4	.2	.0	.2	.7	.8	.5	.0	.0	3.8	
	NO PCP	4.8	2.2	1.9	.6	1.3	1.1	2.9	4.3	.0	.9	20.0	
	TOT %	5.8	2.6	2.1	.6	1.5	1.8	3.6	4.9	.0	.9	23.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	NO PCP	7.6	7.1	4.4	1.7	.9	1.1	2.5	5.6	.0	1.8	32.7	
	TOT %	7.6	7.1	4.4	1.7	.9	1.1	2.5	5.8	.0	1.8	32.9	
TOT OBS		24.2	14.6	8.9	4.0	4.6	4.9	12.3	23.5	.0	3.0	100.0	559
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.2	.1	.4	.2	.0		1.1	
	11-21	.4	.3	.2	.2	.4	.1	.0	.2	.0		1.7	
	22+	.9	.3	.2	.1	.0	.0	.3	1.2	.0		3.0	
	TOT %	1.3	.6	.5	.3	.6	.1	.7	1.7	.0	.0	5.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.0	.0	.0	.2	.0	.0	.0	.0		.6	
	11-21	.2	.4	.0	.3	.4	.4	1.5	1.4	.0		4.5	
	22+	.2	.2	.0	.3	.3	.2	.0	.5	.0		1.7	
	TOT %	.8	.6	.0	.6	.9	.6	1.5	1.9	.0	.2	7.1	
1<2	0-3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.6	.3	.2	.1	.2	.4	.2	.2	.0		2.2	
	11-21	1.4	.7	.0	.0	.2	.3	2.3	.0	.0		4.9	
	22+	1.0	.2	.4	.2	.0	.1	1.5	1.3	.0		4.7	
	TOT %	3.2	1.2	.5	.3	.2	.8	2.0	3.9	.0	.0	12.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.2	
	4-10	1.7	.1	.2	.2	.4	.3	.8	1.0	.0		4.7	
	11-21	2.7	2.1	.8	.4	.4	.2	1.0	2.2	.0		9.7	
	22+	.6	.2	.2	.0	.0	.0	.4	.9	.0		2.4	
	TOT %	5.1	2.4	1.2	.6	.8	.5	2.4	4.1	.0	.0	17.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	
	4-10	2.0	1.7	1.0	.1	.3	.4	.8	.7	.0		7.1	
	11-21	2.7	.8	.2	.1	1.1	.9	1.8	3.1	.0		10.8	
	22+	.4	.2	.6	.4	.0	.4	.6	.3	.0		3.0	
	TOT %	5.2	2.7	1.8	.6	1.5	1.8	3.2	4.1	.0	1.1	21.9	
10+	0-3	.0	.2	.2	.0	.2	.3	.0	.0	.0	1.9	2.8	
	4-10	4.1	3.1	2.6	.5	.3	.5	1.0	1.9	.0		14.2	
	11-21	2.5	4.4	1.8	1.2	.2	.3	1.3	2.8	.0		14.4	
	22+	1.3	.6	.7	.3	.4	.0	.4	.9	.0		4.7	
	TOT %	8.0	8.3	5.3	2.0	1.1	1.1	2.7	5.7	.0	1.9	36.1	
TOT OBS		23.4	15.9	9.5	4.4	5.1	4.8	12.5	21.3	.0	3.2	100.0	465
TOT PCT													

FEBRUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1961-1974

AREA 0021 OKHOTSK SEA SE
52.0N 154.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM $\geq 4/8$) AND
OCCURRENCE OF NM $\leq 5/8$ BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM $\leq 5/8$ ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	9.1	.6	2.4	7.9	18.8	17.6	6.1	1.8	.6	3.6	68.5	31.5	165
06009	8.8	.0	3.7	4.4	14.0	25.0	5.9	1.5	2.2	2.9	68.4	31.6	136
12015	17.0	.0	.9	1.9	20.8	18.9	4.7	.0	6.6	.9	71.7	28.3	106
18021	18.1	.0	2.1	1.1	9.6	23.4	4.3	1.1	4.3	2.1	66.0	34.0	94
TOT	62	1	12	22	81	105	27	6	15	13	344	157	501
PCT	12.4	.2	2.4	4.4	16.2	21.0	5.4	1.2	3.0	2.6	68.7	31.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	6.2	9.3	10.8	13.9	21.6	38.1	194
06009	3.0	6.7	11.0	22.6	21.3	35.4	164
12015	6.0	9.3	16.0	18.0	22.7	28.0	150
18021	8.0	5.6	10.4	20.0	27.2	28.8	125
TOT	36	50	76	116	145	210	633
PCT	5.7	7.9	12.0	18.3	22.9	33.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM $\geq 4/8$) BY HOUR

HR	<150	<600	<1000	1000+	NM $\leq 5/8$ AND 5+	TOTAL
(GMT)	<50YD	<1	<5	AND 5+		OBS
00003	8.6	19.0	40.5	28.8	30.7	163
06009	9.0	16.4	40.3	32.8	26.9	134
12015	17.8	27.7	52.5	20.8	26.7	101
18021	18.7	27.5	49.5	20.9	29.7	91
TOT	61	106	218	131	140	489
PCT	12.5	21.7	44.6	26.8	28.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
50/54	.0	.0	.0	.0	.0	.9	.0	.0	1	.9
40/44	.0	.0	.0	.0	.0	.9	.9	.0	2	1.8
35/39	.0	.0	.0	.0	.0	.0	.0	2.7	3	2.7
30/34	.0	.0	.0	.9	4.5	1.8	.9	3.6	13	11.7
25/29	.0	.0	.0	2.7	1.8	6.3	6.3	8.1	28	25.2
20/24	.0	.0	.0	.9	3.6	2.7	7.2	9.9	27	24.3
15/19	.0	.0	.0	.0	.0	2.7	3.6	14.4	23	20.7
10/14	.0	.0	.0	.0	.0	.0	.0	3.6	4	3.6
5/9	.0	.0	.0	.0	.0	.0	.9	8.1	10	9.0
TOTAL	0	0	0	5	11	16	23	56	111	100.0
PCT	.0	.0	.0	4.5	9.9	14.4	20.7	50.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
0.0	0.0	0.0	0.0	0.0	0.0	.9	.0	.0	.0
0.0	0.0	0.0	0.0	1.8	.0	.0	.0	.0	.0
0.0	0.0	0.0	0.0	.9	1.8	.0	.0	.0	.0
3.2	3.2	2.7	.9	.0	.9	.0	.0	.0	.9
5.6	2.7	4.1	4.5	2.0	1.1	.9	4.3	.0	.0
5.9	4.7	1.6	.5	1.4	3.6	1.8	5.0	.0	.0
11.0	2.3	.0	.0	.0	.9	1.6	5.0	.0	.0
.9	.0	.0	.0	.0	.0	.9	1.8	.0	.0
3.4	.9	.9	.0	.0	.0	.0	3.8	.0	.0
30.0	13.7	9.2	5.9	6.1	8.3	6.1	19.8	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	50	43	33	19	3	-4	-9	18.6	193
06009	51	50	33	18	1	-2	-3	17.9	163
12015	45	39	32	16	3	0	-4	16.4	152
18021	38	37	32	18	3	-2	-2	17.1	124
TOT	51	39	32	18	3	-2	-9	17.6	632

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	7.7	7.7	17.9	20.5	46.2	85	39		
06009	.0	5.9	11.8	11.8	29.4	41.2	83	34		
12015	.0	.0	11.1	16.7	11.1	61.1	88	18		
18021	.0	.0	10.0	10.0	15.0	65.0	90	20		
TOT	0	5	11	16	23	96	86	111		

FEBRUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1941-1974AREA 0021 OKHOTSK SEA SE
92.6N 154.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	M FOG	WU FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	3	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
3	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	4	.0	.8
2	.0	.0	.0	.0	.0	.0	.0	.6	.2	.0	.2	.0	.0	5	.0	1.0
1	.0	.0	.0	.0	.0	.0	.0	.6	.4	.0	.2	.0	.0	6	.2	1.0
0	.0	.0	.0	.0	.0	.0	.0	1.6	.4	.4	.0	.0	.0	12	.0	2.4
-1	.0	.0	.0	.0	.0	.0	.0	.8	.6	.4	.2	.0	.0	10	.0	2.0
-2	.0	.0	.0	.0	.0	.0	1.2	1.4	.6	.0	.0	.0	.0	16	.2	3.0
-3	.0	.0	.0	.0	.0	.0	.0	1.6	.8	.2	.0	.0	.0	13	.0	2.6
-4	.0	.0	.0	.0	.0	.2	2.0	1.6	.2	.0	.0	.0	.0	20	.0	4.0
-5	.0	.0	.0	.0	.0	1.2	2.0	1.0	.2	.0	.0	.0	.0	22	.0	4.4
-6	.0	.0	.0	.0	.0	2.0	.8	1.0	.0	.0	.0	.0	.0	19	.0	3.8
-7/-8	.0	.0	.0	.0	.0	3.2	1.2	.0	.0	.0	.0	.0	.0	22	.2	4.2
-9/-10	.0	.0	.0	.0	.8	2.2	1.6	.0	.0	.0	.0	.0	.0	29	.0	4.5
-11/-13	.0	.0	.0	.6	4.9	4.3	.6	.0	.0	.0	.0	.0	.0	53	.2	10.3
-14/-16	.0	.0	.4	3.2	3.3	1.8	.6	.0	.0	.0	.0	.0	.0	37	.2	11.1
-17/-19	.0	.0	4.3	2.8	1.8	.4	.0	.0	.0	.0	.0	.0	.0	48	.2	9.3
-20/-22	.0	2.8	4.3	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	.2	10.9
-23/-25	.6	4.7	4.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	51	.2	9.9
-26/-30	2.6	4.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	.2	7.7
<-30	3.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.2	3.8
TOTAL	32	62	76	54	66	77	62	47	18	5	3	1	3	506	10	496
PCT	6.3	12.3	15.0	10.7	13.0	13.2	12.3	9.3	3.6	1.0	.6	.2	.6	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	4.9	.4	.0	.0	.0	5.6	.5	3.0	.8	.0	.0	.0	4.2
1-2	.0	2.0	3.0	.0	.0	.0	4.9	.0	1.2	3.3	.0	.0	.0	6.5
3-4	.0	.3	2.1	.7	.0	.0	3.1	.0	.1	1.6	.8	.0	.0	2.5
5-6	.0	.3	1.6	.0	.0	.0	1.9	.0	.1	1.8	.8	.0	.0	2.7
7	.0	.0	1.2	1.5	.0	.0	2.7	.0	.0	.1	.4	.0	.0	.5
8-9	.0	.4	1.1	.0	.0	.0	1.5	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.4	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.9	9.6	4.5	.0	.0	22.3	.5	4.3	9.6	2.7	.0	.0	17.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.4	.0	.0	.0	2.2	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.8	.8	.0	.0	.0	1.6	.0	.5	.4	.0	.0	.0	.9
3-4	.0	.0	1.7	.4	.0	.0	2.1	.0	.0	2.0	.1	.0	.0	2.1
5-6	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.4	.2	.0	.0	.6
7	.0	.4	.3	.7	.0	.0	1.4	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	3.1	2.1	.0	.0	8.2	.0	1.0	3.3	1.6	.0	.0	5.9

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0021 DKHOTSK SEA SE
52.6N 154.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.4	.0	.0	.0	.0		.7	.5	.6	.0	.0	.0	.0		1.1
1-2	.0	.3	.4	.0	.0	.0		.7	.0	.4	.4	.0	.0	.0		.8
3-4	.0	.4	.7	.7	.0	.0		1.8	.0	.4	.5	.0	.0	.0		.9
5-6	.0	.0	.7	.0	.0	.0		.7	.0	.0	.1	.0	.0	.0		.1
7	.0	.0	.3	.4	.0	.0		.7	.0	.4	.5	.4	.0	.0		1.3
8-9	.0	.0	.6	.0	.0	.0		.6	.0	.0	.0	.4	.0	.0		.4
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	1.1	2.7	1.1	.0	.0		5.1	.5	1.8	1.5	.8	.1	.0		4.6

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	2.1	.3	.0	.0	.0		2.7	.1	1.8	1.3	.0	.0	.0		3.1
1-2	.0	1.8	1.1	.0	.0	.0		2.9	.0	1.0	3.2	.0	.0	.0		4.2
3-4	.0	.4	3.1	.0	.0	.0		3.4	.0	.0	3.4	.1	.0	.0		3.5
5-6	.0	.0	2.3	.4	.0	.0		2.7	.0	.0	3.4	.4	.8	.0		4.6
7	.0	.0	.0	.6	.0	.0		.6	.0	.0	.4	1.1	.0	.0		1.5
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.0	.0		.4
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.4	.0		.8
13-16	.0	.0	.4	.0	.3	.0		.7	.0	.0	.0	.4	.0	.0		.4
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.3	.0	.0	.0		.3	.0	.0	.1	.0	.0	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	4.2	7.4	1.0	.3	.0		13.2	.1	2.8	11.9	2.9	1.2	.0		95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	15.0	3.1	.0	.0	.0	24.8	
1-2	.0	7.9	14.6	.0	.0	.0	22.4	
3-4	.0	1.6	15.0	2.8	.0	.0	19.3	
5-6	.0	.4	10.2	2.8	.8	.0	14.2	
7	.0	.8	2.8	5.5	.0	.0	9.1	
8-9	.0	.4	2.0	2.0	.0	.0	4.3	
10-11	.0	.0	.4	1.2	.0	.0	1.6	
12	.0	.0	.4	.8	.4	.0	1.6	
13-16	.0	.0	.4	1.6	.4	.0	2.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.4	.0	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	26.0	49.2	16.5	1.6	.0	100.0	234

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
5-6	2.4	12.3	10.7	7.5	4.0	1.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	4
6-7	.0	.5	1.6	3.8	4.3	4.0	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	7
8-9	.0	.3	.3	1.3	1.3	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.5	.3	.3	.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	.3	.8	.0	.0	.3	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	12
INDEX	20.6	3.2	3.5	3.2	1.9	.8	.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	2
TOTAL	86	63	65	62	47	25	10	4	10	0	1	0	0	0	0	0	0	0	0	373	4
PCT	23.1	16.9	17.4	16.6	12.6	6.7	2.7	1.1	2.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

MARCH

AREA 0021 OKHOTSK SEA SE
52.0N 154.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	25.3	.0	.0	25.3	5.6	.0	2.4	.0	.0	.0	66.7
NE	.0	.0	.0	.0	11.6	.0	.0	11.6	.0	.0	4.7	.0	.0	.0	83.5
E	.0	.0	.0	.0	27.6	.0	.0	27.6	1.9	.0	5.9	.0	.0	.0	65.0
SE	2.3	2.3	.0	.0	29.0	.0	.0	33.5	2.8	.0	2.8	.0	.0	.0	60.8
S	.0	.0	.0	.0	16.6	2.5	.0	19.0	3.7	.0	1.8	.0	.0	1.8	73.6
SW	.0	.0	.5	.0	27.0	.0	.0	27.4	7.0	.0	.0	.0	.0	.5	65.1
W	.0	.0	1.0	.0	36.4	.0	.0	37.4	3.7	.0	1.4	.0	.0	.0	57.5
NW	3.1	.0	.0	.0	30.5	.0	.0	31.5	6.0	.0	3.4	.0	.0	.0	59.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	16.7	.0	.0	16.7	.0	.0	4.2	.0	.0	.0	79.2
TOT PCT	.7	.2	.2	.0	25.8	.2	.0	26.7	3.9	.0	2.9	.0	.0	.2	66.4
TOT OBS:	559														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.5	.0	.5	.0	21.4	.5	.0	23.0	3.2	.0	3.7	.0	.0	.5	69.5
06009	.0	.6	.0	.0	23.5	.0	.0	24.1	5.3	.0	2.9	.0	.0	.0	67.6
12015	1.4	.0	.0	.0	27.7	.0	.0	27.7	4.1	.0	.7	.0	.0	.0	67.6
18021	.8	.0	.0	.0	31.1	.0	.0	31.9	1.7	.0	5.9	.0	.0	.8	59.7
TOT PCT	.6	.2	.2	.0	25.3	.2	.0	26.1	3.7	.0	3.2	.0	.0	.3	66.7
TOT OBS:	624														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	8.4	9.0	2.9	.0	.0		20.7	13.6		20.2	15.9	23.6	30.6	20.1	22.2	17.9	16.1
NE	.3	7.3	2.6	1.1	.0	.0		11.2	10.0		13.0	2.3	15.9	.0	7.6	2.8	9.1	8.9
E	.4	3.2	3.0	1.4	1.1	.0		9.1	16.3		9.9	18.2	5.8	11.1	9.3	19.4	11.7	.0
SE	.0	3.3	1.6	1.1	.8	.0		6.8	16.7		9.7	18.2	6.0	.0	6.6	2.8	3.6	.0
S	.0	2.1	2.5	2.3	.5	.0		7.3	17.5		6.5	.0	7.7	11.1	8.1	.0	10.1	.0
SW	.0	3.3	2.6	3.5	.1	.0		9.7	17.3		9.2	18.2	7.1	11.1	11.0	11.1	9.4	21.4
W	.0	1.9	6.3	3.6	1.1	.0		13.1	19.9		8.3	18.2	14.9	16.7	13.9	11.1	12.7	21.4
NW	.2	4.3	8.3	4.0	.6	.0		17.4	16.9		14.2	9.1	16.5	19.4	16.4	30.6	19.2	32.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							4.7	.0		7.0	.0	2.4	.0	4.9	.0	6.5	.0
TOT OBS	29	165	176	98	20	0	488		15.0		142	11	124	9	102	9	77	14
TOT PCT	5.9	33.8	36.1	20.1	4.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.3	10.3	6.1	.9	.0		20.7	13.6	19.9	24.1	20.3	17.6	
NE	4.4	5.3	1.5	.1	.0		11.2	10.0	12.3	14.8	7.2	9.1	
E	1.9	3.8	1.9	1.1	.4		9.1	16.3	10.5	6.2	10.1	9.9	
SE	1.1	2.9	1.7	.6	.5		6.8	16.7	10.3	5.6	6.3	3.0	
S	.8	2.7	3.0	.8	.0		7.3	17.5	6.0	7.9	7.4	8.5	
SW	.9	4.0	3.5	1.3	.0		9.7	17.3	9.8	7.3	11.0	11.3	
W	.6	4.0	5.7	2.7	.0		13.1	19.9	9.0	15.0	15.3	14.0	
NW	1.5	8.1	5.7	1.9	.2		17.4	16.9	15.7	16.7	17.6	21.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.7						4.7	.0	6.5	2.3	4.5	5.5	
TOT OBS	94	201	142	46	5	468		15.0	133	133	111	91	
TOT PCT	19.3	41.2	29.1	9.4	1.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

MARCH

AREA 0021 OKHOTSK SEA SE
52.6N 154.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.5	2.0	37.3	35.3	15.7	3.3	.0	14.0	100.0	153
06009	2.3	1.5	34.6	34.6	22.6	4.5	.0	15.5	100.0	133
12015	4.5	.9	34.2	36.0	21.6	2.7	.0	15.0	100.0	111
18021	5.5	.0	26.4	39.6	22.0	6.6	.0	16.2	100.0	91
TOT	23	6	165	176	98	20	0	15.0		488
PCT	4.7	1.2	33.8	36.1	20.1	4.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.1	1.1	4.4	10.9		6.1
NE	3.4	2.2	1.7	3.3		4.4
E	1.0	.8	2.3	5.1		6.3
SE	.8	.8	2.4	3.6		6.1
S	.2	.4	2.1	4.5		6.9
SW	.7	.5	3.1	6.0		6.7
W	1.8	.3	5.8	5.3		5.9
NW	2.1	2.0	4.4	9.4		6.1
VAR	.0	.0	.0	.0		.0
CALM	1.7	.8	.8	.8		3.9
TOT OBS	70	43	128	232	473	5.9
TOT PCT	14.8	9.1	27.1	49.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.7	.0	.0	1.7	3.9	5.7	1.4	.4	.2	.0	4.6	
NE	.7	.0	.0	.3	.7	1.4	.5	.0	.0	.9	6.0	
E	1.2	.0	.0	.0	1.1	2.0	.4	.0	.0	1.5	3.0	
SE	.7	.0	.0	.2	1.1	2.4	.1	.4	.0	.4	2.4	
S	.6	.0	.0	.2	1.9	2.7	.5	.0	.4	.2	.7	
SW	.4	.0	.3	.3	1.8	4.0	.1	.0	.1	.7	2.8	
W	.7	.0	.2	.4	3.4	3.9	.2	.4	.3	.2	3.6	
NW	1.4	.0	.2	.6	4.8	5.4	.6	.1	.3	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.4	1.1	.0	.0	.0	.0	2.5	
TOT OBS	37	0	3	17	90	135	18	6	6	18	143	473
TOT PCT	7.8	.0	.6	3.6	19.0	28.5	3.8	1.3	1.3	3.8	30.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	3.6	4.8	5.2	5.5	5.5	5.5	5.5	5.5
>5000	4.2	5.7	6.3	6.7	6.7	6.7	6.7	6.7
>3500	7.1	9.5	10.7	11.1	11.1	11.1	11.1	11.1
>2000	19.7	31.5	37.2	39.5	39.5	39.5	39.5	39.5
>1000	22.9	38.5	47.7	55.7	57.4	57.6	58.4	58.4
>600	23.7	40.3	50.4	59.2	61.1	61.3	62.0	62.0
>300	23.7	40.3	51.0	59.7	61.6	61.8	62.8	62.8
>150	23.7	40.3	51.0	59.7	61.6	61.8	62.8	62.8
>0	23.7	41.4	53.2	61.4	67.4	68.9	71.0	71.2
TOTAL	124	217	279	332	353	361	372	373

TOTAL NUMBER OF OBS: 524

PCT FREQ NH <5/8: 28.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
14.0	2.5	3.2	5.6	3.5	6.5	10.0	10.3	36.8	571

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

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AREA 0021 UKHOTSK SEA SE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.3	.9	.2	.5	.4	.7	.0	.0	3.2	
	NO PCP	.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.9	
	TOT %	.3	.3	.6	1.0	.3	.5	.4	.8	.0	.0	4.1	
1/2<1	PCP	.7	.2	.7	.2	.0	*	1.3	.8	.0	.0	3.9	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5	
	TOT %	1.0	.2	.7	.2	.0	*	1.3	.9	.0	.0	4.4	
1<2	PCP	2.7	.4	.9	.9	.7	1.2	1.5	2.4	.0	.4	11.0	
	NO PCP	.1	.2	.2	.2	.0	.0	.2	.0	.0	.0	.9	
	TOT %	2.8	.6	1.1	1.1	.7	1.2	1.6	2.5	.0	.4	11.9	
2<5	PCP	1.3	.8	.6	.4	.5	.6	1.9	1.2	.0	.2	6.9	
	NO PCP	.6	.4	.6	.3	.7	.4	.6	1.2	.0	.0	4.8	
	TOT %	1.9	.4	1.2	.8	1.2	1.0	2.5	2.4	.0	.2	11.7	
5<10	PCP	.4	.5	.0	.0	.0	.2	.3	.7	.0	.2	2.3	
	NO PCP	5.0	1.5	1.3	.6	2.8	2.4	2.7	4.0	.0	.2	20.5	
	TOT %	5.4	2.1	1.3	.6	2.8	2.6	2.9	4.7	.0	.4	22.8	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	8.7	7.7	4.1	4.0	2.2	4.2	4.7	6.1	.0	3.4	45.0	
	TOT %	8.7	7.7	4.1	4.2	2.2	4.2	4.7	6.1	.0	3.4	45.1	
TOT OBS		565											
TOT PCT		20.1	11.3	9.0	7.8	7.2	9.5	13.5	17.4	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.4	.4
	11-21	.0	.1	.2	.2	.0	.0	.0	.2	.0	.0	.6	.6
	22+	.2	.1	.2	.5	.2	.2	.4	.6	.0	.0	2.3	2.3
	TOT %	.3	.3	.4	.7	.2	.2	.4	.9	.0	.0	3.3	3.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.0	.0	.2	.0	.0	.2	.1	.0	.0	.8	.8
	11-21	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.4	.4
	22+	.6	.1	.6	.1	.0	.0	.7	.5	.0	.0	2.5	2.5
	TOT %	1.0	.1	.6	.3	.0	.0	1.2	.6	.0	.0	3.7	3.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4
	4-10	.7	.1	.4	.2	.4	.3	.4	.8	.0	.0	3.3	3.3
	11-21	1.9	.0	.4	.2	.2	.3	1.2	1.2	.0	.0	5.4	5.4
	22+	.2	.2	.4	.2	.2	.9	.3	.7	.0	.0	3.1	3.1
	TOT %	2.8	.3	1.2	.6	.8	1.4	1.9	2.7	.0	.4	12.2	12.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2
	4-10	.6	.5	.4	.3	.2	.5	.2	.2	.0	.0	2.7	2.7
	11-21	.9	.0	.4	.0	.2	.1	.7	1.0	.0	.0	3.3	3.3
	22+	.6	.1	.5	.1	.6	.3	.9	.8	.0	.0	3.7	3.7
	TOT %	2.1	.5	1.3	.4	.9	.8	1.8	2.0	.0	.2	9.9	9.9
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2
	4-10	1.4	.9	.3	.1	1.0	.9	.2	.7	.0	.0	5.4	5.4
	11-21	3.0	.7	.4	.1	.8	.9	1.1	2.2	.0	.0	9.1	9.1
	22+	.6	.5	.5	.3	1.2	.9	1.2	1.0	.0	.0	6.2	6.2
	TOT %	5.0	2.0	1.2	.4	3.0	2.7	2.5	3.9	.0	.2	20.9	20.9
10+	0-3	.4	.3	.4	.0	.0	.0	.0	.2	.0	3.9	5.2	5.2
	4-10	5.2	5.7	2.1	2.6	.6	1.7	1.0	2.5	.0	.0	21.5	21.5
	11-21	3.1	1.9	1.7	1.1	1.4	1.6	2.9	3.6	.0	.0	17.2	17.2
	22+	.9	.3	.3	.8	.6	1.2	1.2	.8	.0	.0	6.0	6.0
	TOT %	9.5	8.1	4.6	4.5	2.5	4.5	5.2	7.1	.0	3.9	49.9	49.9
TOT OBS		483											
TOT PCT		20.7	11.3	9.2	6.8	7.4	9.6	13.0	17.1	.0	4.8	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

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AREA 0021 OKHOTSK SEA SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.0	.0	1.1	4.0	15.4	29.1	4.6	1.1	2.3	3.4	69.1	30.9	175
06009	5.3	.0	.7	3.3	17.2	31.8	6.0	2.0	2.0	4.0	72.2	27.8	151
12015	6.1	.0	.9	2.6	20.0	26.1	3.3	.9	2.6	1.7	64.3	35.7	115
18021	16.0	.0	.0	4.0	24.0	22.0	2.0	.0	.0	5.0	73.0	27.0	100
TOT	45	0	4	19	100	151	23	6	10	19	377	164	541
PCT	8.3	.0	.7	3.5	18.5	27.9	4.3	1.1	1.8	3.5	69.7	30.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.2	4.2	10.0	10.0	17.4	55.3	190
06009	5.8	3.5	8.8	11.1	19.3	51.5	171
12015	2.0	3.4	11.5	18.9	27.0	37.2	148
18021	5.7	6.6	15.6	13.9	25.4	32.8	122
TOT	26	27	70	83	137	288	631
PCT	4.1	4.3	11.1	13.2	21.7	45.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.8	12.0	32.3	40.7	26.9	167
06009	5.3	8.0	28.7	44.0	27.3	150
12015	6.4	8.3	34.9	34.9	30.3	109
18021	16.3	22.4	46.9	30.6	22.4	98
TOT	44	63	181	202	141	524
PCT	8.4	12.0	34.5	38.5	26.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
40/44	.0	.0	.0	.8	.0	.0	.0	.0	1	.8
35/39	.0	.0	.0	.0	.0	1.6	.0	.8	3	2.4
30/34	.0	.0	.0	.8	2.4	3.1	6.3	7.1	25	19.7
25/29	.0	.0	.0	.8	3.1	5.5	8.7	11.8	38	29.9
20/24	.0	.0	.0	.0	.8	3.1	7.1	18.9	38	29.9
15/19	.0	.0	.0	.0	.0	1.6	1.6	6.3	12	9.4
10/14	.0	.0	.0	.0	.0	.0	2.4	3.9	6	6.3
5/9	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	3	9	19	33	63	127	100.0
PCT	.0	.0	.0	2.4	7.1	15.0	26.0	49.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	1.4	1.0	.0	.0	.0	.0	.0	.0
1.4	5.9	4.7	4.5	2.0	1.2	.0	.0	.0	.0
2.0	2.8	2.2	3.5	1.4	8.7	5.3	4.1	.0	.0
7.9	2.4	4.5	.0	2.0	1.4	5.3	6.5	.0	.0
2.0	.0	.6	.2	.6	1.0	1.6	3.5	.0	.0
3.0	.0	.0	.0	.0	.8	.0	2.6	.0	.0
.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
16.1	12.6	13.4	9.3	5.9	13.0	12.2	17.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	36	34	25	12	7	-4	24.2	177
06009	41	40	37	26	13	9	7	25.4	156
12015	38	36	32	23	13	7	3	22.9	143
18021	39	37	32	23	9	-2	-2	22.0	112
TOT	45	39	34	25	11	7	-4	23.8	590

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.5	12.9	25.8	16.1	38.7	82	31
06009	.0	2.9	2.9	11.8	38.2	44.1	87	34
12015	.0	.0	3.0	12.1	27.3	57.6	89	33
18021	.0	.0	10.3	10.3	20.7	58.6	88	29
TOT	0	3	9	19	33	63	87	127

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

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AREA 0021 OKHOTSK SEA SE
52.6N 154.0E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	04 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	MO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	2	.0	.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	3	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.0	.2	8	.4	1.2
3	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.4	.0	.0	10	.2	1.9
2	.0	.0	.0	.0	.0	.0	.0	1.6	.6	.2	.0	.0	12	.0	2.5
1	.0	.0	.0	.0	.0	.0	.0	2.3	1.0	.0	.0	.0	16	.0	3.3
0	.0	.0	.0	.0	.0	.0	.2	5.6	.4	.2	.0	.0	31	.4	6.0
-1	.0	.0	.0	.0	.0	.0	2.3	1.4	.2	.0	.0	.0	19	.0	3.9
-2	.0	.0	.0	.0	.0	.0	3.1	2.3	.4	.4	.0	.0	30	.2	6.0
-3	.0	.0	.0	.0	.0	.0	2.1	.6	.0	.2	.0	.0	14	.2	2.7
-4	.0	.0	.0	.0	.0	.0	3.3	1.0	.2	.0	.0	.0	22	.0	4.5
-5	.0	.0	.0	.0	.0	1.6	3.7	.8	.0	.0	.0	.0	30	.0	6.2
-6	.0	.0	.0	.0	.0	2.7	2.1	.4	.0	.0	.0	.0	25	.0	5.2
-7/-8	.0	.0	.0	.0	.2	6.6	3.7	.4	.0	.0	.0	.0	53	.0	10.9
-9/-10	.0	.0	.0	.0	4.1	5.6	1.4	.0	.0	.0	.0	.0	54	.8	10.3
-11/-13	.0	.0	.0	1.6	4.9	3.9	.8	.6	.0	.0	.0	.0	58	.0	12.0
-14/-16	.0	.0	.2	6.2	1.9	1.4	.4	.0	.0	.0	.0	.0	49	.4	9.7
-17/-19	.0	.0	2.1	1.9	.6	.0	.0	.0	.0	.0	.0	.0	22	.2	4.3
-20/-22	.0	.6	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	12	.2	2.3
-23/-25	.0	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	1.9
<-30	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.6
TOTAL	2	7	23	50	57	112	92	23	11	1	1	1	485	15	470
PCT	.4	1.4	4.7	10.3	11.8	21.9	19.0	4.7	2.3	.2	.2	.2	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	5.6	.7	.0	.0	.0		6.3	.0	7.3	.1	.0	.0	.0		7.4
1-2	.0	1.0	1.9	.0	.0	.0		2.9	.0	.4	1.3	.0	.0	.0		1.7
3-4	.0	.7	1.3	.7	.0	.0		2.7	.0	.0	1.1	.4	.0	.0		1.5
5-6	.0	.0	1.5	.7	.0	.0		2.1	.0	.0	.1	.1	.0	.0		.2
7	.0	.0	1.5	.9	.0	.0		2.4	.0	.0	.1	.9	.0	.0		1.0
8-9	.0	.0	.7	.7	.0	.0		1.5	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.4	.7	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	7.4	7.9	4.4	.0	.0		19.7	.0	7.6	2.7	1.4	.0	.0		11.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.1	.0	.0	.0	.0		1.5	.0	3.5	.0	.0	.0	.0		3.5
1-2	.0	.0	.7	.0	.0	.0		.7	.0	.4	.4	.0	.0	.0		.7
3-4	.0	.4	1.1	.0	.0	.0		1.5	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.3	.4	.0		.7	.0	.0	.0	.1	.1	.0		.2
7	.0	.0	.3	.3	.0	.0		.6	.0	.0	.0	.6	.0	.0		.6
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.7	.0		.7	.0	.0	.0	.0	.1	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.7	.0		.7
17-19	.0	.0	.0	.4	.0	.0		.4	.0	.4	.0	.0	.4	.0		.7
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	1.5	2.1	.9	1.0	.0		6.0	.0	4.2	.4	.7	1.3	.0		6.3

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0021 OKHOTSK SEA SE
52.6N 154.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.7	.6	.0	.0	.0	1.3	.0	.4	.2	.0	.0	.0	.6
3-4	.0	.7	.9	.0	.0	.0	1.7	.0	.4	.3	1.2	.0	.0	1.9
5-6	.0	.0	.6	.7	.3	.0	1.5	.0	.0	.6	.2	.0	.0	.7
7	.0	.3	.4	1.3	.0	.0	2.0	.0	.1	.0	1.3	.0	.0	1.4
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.8	.0	.0	.4
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.4	.5	.1	.0	.9
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	3.2	2.3	.8	.0	8.4	.0	1.2	1.4	4.8	.2	.0	7.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.4	3.2	.0	.0	.0	.0	3.5	
1-2	.0	.4	1.4	.0	.0	.0	1.8	.0	1.2	1.8	.0	.0	.0	3.0	
3-4	.0	.4	2.0	1.0	.0	.0	3.4	.0	.7	2.2	.5	.0	.0	3.5	
5-6	.0	.4	1.4	.6	.0	.0	2.3	.0	.0	1.5	1.6	.0	.0	3.1	
7	.0	.0	1.1	.9	.3	.0	2.3	.0	.0	.7	1.6	.5	.0	2.8	
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.3	.7	.0	.9	.0	.0	.0	.6	.1	.0	.7	
13-16	.0	.0	.7	.8	.0	.0	1.6	.0	.0	.4	.9	.0	.0	1.3	
17-19	.0	.0	.0	.4	.7	.0	1.0	.0	.0	.0	.0	.5	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.1	6.6	6.3	1.6	.0	15.6	.4	5.1	6.6	5.8	1.0	.0	18.9	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	21.3	.7	.0	.0	.0	28.4	
1-2	.0	4.5	8.2	.0	.0	.0	12.7	
3-4	.0	3.4	9.0	3.7	.0	.0	16.0	
5-6	.0	.4	5.6	4.1	.7	.0	10.8	
7	.0	.4	4.1	7.8	.7	.0	13.1	
8-9	.0	.0	.7	2.6	.0	.0	3.4	
10-11	.0	.0	.7	3.4	.7	.0	4.9	
12	.0	.0	.4	1.1	.7	.0	2.2	
13-16	.0	.0	1.5	2.2	1.1	.0	4.9	
17-19	.0	.0	.4	.0	1.9	.0	3.4	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	30.2	31.0	26.5	6.0	.0	100.0	268

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	7.1	9.8	5.4	4.4	1.1	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	4
6-7	.0	1.1	1.9	1.9	4.6	1.9	.5	1.1	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	7
8-9	.0	.0	.3	.8	1.9	1.1	2.5	.3	1.9	.5	.8	.0	.3	.0	.0	.0	.0	.0	.0	38	11
10-11	.0	.3	.0	.5	.5	.3	.0	.8	1.1	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	20	12
12-13	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	4	15
>13	.0	.0	.0	.5	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDET	23.2	1.6	2.2	1.1	.8	.3	.3	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	1
TOTAL	109	38	52	38	46	18	18	10	20	10	6	1	1	0	0	0	0	0	0	367	5
PCT	29.7	10.4	14.2	10.4	12.5	4.9	4.9	2.7	5.4	2.7	1.6	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

APRIL

AREA 0021 QKMDTSK SEA SE
52.7N 154.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.5	.0	.0	4.7	.0	.0	5.1	.9	.0	6.5	.5	.0	.0	87.0
NE	.3	1.6	.0	.0	12.9	2.5	.0	17.3	4.7	.0	3.5	.0	.0	.0	74.5
E	1.1	.0	.0	.0	18.0	.0	.0	19.1	4.7	.0	4.3	1.4	.0	.0	70.5
SE	2.5	.0	.4	.0	13.7	1.4	.0	17.9	5.6	.0	16.5	.0	.0	.0	60.0
S	5.3	.0	2.3	.0	8.4	.0	.6	16.6	2.5	.0	24.2	.0	.0	.0	56.6
SW	2.5	.0	.0	.0	9.8	.0	.3	11.4	.0	.0	7.0	.0	1.3	.0	80.4
W	1.1	.0	2.2	.0	6.6	.0	.0	10.0	3.0	.0	5.3	.0	.0	.0	81.7
NW	.0	.0	.0	.0	8.2	.0	.0	8.2	2.5	.0	8.9	.2	.0	.0	80.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.2	.0	6.7	.0	.0	8.9	.0	.0	20.0	.0	.0	.0	71.1
TOT PCT	1.4	.2	.7	.0	9.2	.4	.1	11.9	2.5	.0	10.4	.2	.1	.0	74.8
TOT OBS:	829														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	1.8	.0	.5	.0	10.0	.9	.0	13.1	3.6	.0	8.1	.0	.0	.0	75.1
06009	.8	.8	1.2	.0	9.8	.0	.4	13.0	2.4	.0	8.3	.4	.0	.0	76.0
12015	.5	.0	.0	.0	8.1	.0	.0	8.6	3.6	.0	10.9	.0	.5	.0	76.5
18021	2.6	.0	1.5	.0	7.7	.5	.0	11.8	2.1	.0	13.8	.5	.0	.0	71.8
TOT PCT TOT OBS:	1.3 891	.2	.8	.0	9.0	.3	.1	11.7	2.9	.0	10.1	.2	.1	.0	75.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	7.6	8.6	2.6	.1	.0		19.8	13.7		14.1	15.3	16.7	23.9	21.5	25.6	22.1	20.6
NE	.2	3.8	4.0	.8	.0	.0		8.8	12.5		9.4	.6	11.9	5.7	10.9	11.9	4.9	7.5
E	.4	2.2	4.0	.5	.4	.1		7.8	14.7		12.5	2.3	7.9	2.3	10.9	3.8	4.5	5.0
SE	.2	2.2	4.5	2.2	.5	.0		9.6	17.7		12.3	17.6	10.3	11.4	7.0	5.6	7.6	5.6
S	.5	3.4	6.8	2.6	.1	.0		13.4	15.1		13.0	19.9	13.6	15.3	12.3	9.4	12.7	15.6
SW	.5	3.0	4.8	.8	.3	.0		9.5	13.6		6.8	15.3	12.3	11.9	7.0	5.0	11.9	5.0
W	1.6	2.6	6.0	1.7	.0	.0		11.9	13.8		14.2	14.2	9.6	10.8	11.3	15.6	10.5	13.8
NW	.6	4.7	7.0	1.1	.4	.0		13.8	13.4		8.2	14.8	13.4	14.2	14.1	15.6	16.8	21.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0		5.6	.0	4.3	4.5	4.9	7.5	9.0	5.0
TOT OBS	76	218	338	91	14	1	738		13.5		144	44	162	44	142	40	122	40
TOT PCT	10.3	29.5	45.8	12.3	1.9	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	2.9	10.6	5.0	1.1	.1			19.8	13.7	17.4	18.2	22.4	21.8
NE	1.6	4.7	2.2	.2	.0			8.8	12.5	7.3	10.6	11.1	5.6
E	.8	4.8	1.4	.6	.1			7.8	14.7	10.1	6.7	9.3	4.6
SE	1.4	3.4	3.2	1.5	.2			9.6	17.7	13.6	10.6	6.7	7.1
S	1.6	6.4	4.6	.6	.1			13.4	15.1	14.6	14.0	11.7	13.4
SW	2.2	4.1	2.8	.4	.0			9.5	13.6	8.8	12.3	6.6	10.2
W	3.3	4.0	3.7	.9	.0			11.9	13.8	14.2	9.8	12.2	11.3
NW	2.1	8.1	3.0	.6	.0			13.8	13.4	9.7	13.6	14.4	18.1
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	4.3	4.4	5.5	8.0
TOT OBS	158	341	192	43	4	738			13.5	188	206	182	162
TOT PCT	21.4	46.2	26.0	5.8	.5		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

APRIL

AREA 0021 OKMOTSK SEA SE
52.7N 154.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.3	5.9	31.9	43.1	13.3	1.6	.0	13.6	100.0	188
06009	4.4	1.0	23.7	53.9	12.6	2.4	.0	14.4	100.0	206
12015	5.5	7.1	26.9	48.9	10.4	.5	.5	13.0	100.0	182
18021	8.0	6.2	34.6	35.2	13.0	3.1	.0	12.6	100.0	162
TOT	40	36	218	338	91	14	1	13.5		738
PCT	5.4	4.9	29.5	45.8	12.3	1.9	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.5	2.5	5.6	8.0		5.5
NE	1.4	.9	2.7	4.7		6.2
E	.7	.5	1.3	4.8		6.6
SE	1.0	.2	1.8	5.6		6.7
S	1.3	.9	2.8	9.4		6.7
SW	1.0	.8	1.7	5.9		6.5
W	3.6	1.3	2.7	3.7		4.7
NW	3.2	.9	3.6	6.2		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.8	.3	.9	2.6		5.1
TOT OBS	131	62	171	377	741	5.9
TOT PCT	17.7	8.4	23.1	50.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.4	.0	.1	3.3	3.5	3.2	1.0	.0	.0	.0	7.1	
NE	.9	.0	.3	.4	2.4	1.4	.6	.3	.5	.0	2.9	
E	.7	.1	.1	.6	2.4	.9	.7	.0	.1	.0	1.7	
SE	2.0	.2	.4	1.0	.9	2.3	.5	.2	.1	.0	1.4	
S	5.1	.1	.2	1.5	1.9	1.4	1.2	.2	.1	.0	2.7	
SW	1.2	.0	.3	.8	1.6	1.9	.7	.1	.0	.0	2.8	
W	1.0	.1	.3	.7	2.0	.7	.3	.2	.4	.0	5.6	
NW	1.0	.1	.6	1.9	2.4	1.5	.6	.0	.0	.0	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.0	.7	.3	.5	.4	.0	.0	.1	2.0	
TOT OBS	109	5	15	81	129	102	44	7	10	1	238	741
TOT PCT	14.7	.7	2.0	10.9	17.4	13.8	5.9	.9	1.3	.1	32.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.4	1.5	1.5	1.5	1.5	1.5	1.5
>5000	1.8	2.5	2.6	2.6	2.6	2.6	2.6	2.6
>3500	5.0	7.6	8.3	8.3	8.4	8.4	8.6	8.6
>2000	11.7	19.1	21.0	21.4	21.8	21.9	22.2	22.2
>1000	16.4	31.5	36.6	37.4	38.6	38.7	39.1	39.1
>600	17.2	36.6	45.7	47.4	49.5	50.1	50.5	50.5
>300	17.2	37.0	46.5	48.4	50.8	51.7	52.3	52.3
>150	17.2	37.2	46.7	48.8	51.4	52.3	52.8	52.8
>0	17.3	37.5	48.6	52.1	56.4	58.8	66.7	67.5
TOTAL	134	291	377	404	437	456	517	523

TOTAL NUMBER OF OBS: 775

PCT FREQ NH <5/8: 32.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.9	3.8	7.8	4.5	5.6	5.2	9.9	8.0	30.1	13.8	821

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

APRIL

AREA 0021 OKHOTSK SEA SE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.4	.4	.3	.6	.2	.2	.1	.0	.1	2.4	
	NO PCP	1.2	.3	.1	1.3	3.2	.5	.6	.7	.0	1.0	8.9	
	TOT %	1.2	.7	.6	1.6	3.8	.7	.8	.8	.0	1.1	11.3	
1/2<1	PCP	.2	.5	.5	.8	.5	.2	.1	.3	.0	.0	3.1	
	NO PCP	.1	.0	.1	.2	.2	.0	.0	.2	.0	.0	1.0	
	TOT %	.3	.5	.6	1.0	.7	.2	.1	.5	.0	.0	4.1	
1<2	PCP	.1	.6	.1	.3	.6	.4	.3	.1	.0	.4	2.9	
	NO PCP	.1	.0	.0	.2	.0	.0	.0	.5	.0	.0	.8	
	TOT %	.2	.6	.1	.6	.6	.4	.3	.6	.0	.4	3.7	
2<5	PCP	.7	.1	.3	.3	.5	.2	.4	.2	.0	.0	2.9	
	NO PCP	1.4	1.0	1.0	.3	1.7	1.6	1.0	1.5	.0	.6	10.1	
	TOT %	2.1	1.2	1.3	.6	2.2	1.9	1.3	1.7	.0	.6	12.9	
5<10	PCP	.1	.0	.1	.0	.1	.2	.2	.4	.0	.0	1.1	
	NO PCP	6.7	2.3	3.0	1.5	4.0	2.1	2.7	3.1	.0	.7	26.2	
	TOT %	6.8	2.3	3.1	1.5	4.1	2.3	2.9	3.5	.0	.7	27.3	
10+	PCP	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	9.4	4.2	2.5	3.4	2.7	4.1	5.5	6.0	.0	2.6	40.5	
	TOT %	9.5	4.3	2.6	3.4	2.7	4.1	5.5	6.0	.0	2.6	40.7	
TOT OBS													
TOT PCT													
		20.1	9.5	8.3	8.8	14.2	9.6	10.9	13.2	.0	5.4	100.0	835

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.1	.3	.4	.0	.0	1.3	2.2	
	4-10	1.0	.2	.0	.4	1.2	.2	.1	.7	.0	.0	3.8	
	11-21	.0	.1	.1	.4	1.2	.1	.1	.1	.0	.0	2.2	
	22+	.0	.0	.4	.5	.0	.0	.3	.0	.0	.0	1.1	
	TOT %	1.1	.4	.5	1.2	2.5	.7	.9	.8	.0	1.3	9.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.1	.3	.1	.0	.0	.0	.0	.8	
	11-21	.0	.1	.4	.3	.4	.0	.1	.2	.0	.0	1.5	
	22+	.1	.0	.1	.8	.2	.1	.0	.2	.0	.0	1.5	
	TOT %	.2	.3	.6	1.2	.9	.3	.1	.4	.0	.0	3.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.2	.1	.1	.1	.1	.0	.3	.0	.0	.8	
	11-21	.1	.5	.3	.4	.5	.4	.3	.1	.0	.0	2.7	
	22+	.1	.1	.0	.3	.2	.0	.1	.4	.0	.0	1.3	
	TOT %	.2	.8	.4	.9	.8	.5	.4	.7	.0	.4	5.2	
2<5	0-3	.1	.0	.1	.0	.1	.2	.1	.3	.0	.7	1.7	
	4-10	1.1	.3	.8	.2	.4	.7	.1	.8	.0	.0	4.3	
	11-21	1.0	.5	.7	.7	1.3	.8	.9	.7	.0	.0	6.6	
	22+	.4	.3	.0	.3	.7	.4	.5	.4	.0	.0	2.8	
	TOT %	2.5	1.1	1.6	1.2	2.5	2.0	1.7	2.2	.0	.7	15.4	
5<10	0-3	.2	.1	.0	.0	.2	.1	.4	.1	.0	.8	2.0	
	4-10	2.2	.6	.7	.4	.7	.7	1.3	1.0	.0	.0	7.6	
	11-21	3.5	1.2	1.2	.6	2.8	1.6	1.6	2.1	.0	.0	14.4	
	22+	1.0	.2	.4	.7	.8	.2	.2	.4	.0	.0	3.6	
	TOT %	6.9	2.1	2.2	1.7	4.5	2.5	3.4	3.6	.0	.8	27.8	
10+	0-3	.3	.1	.3	.1	.0	.0	.7	.2	.0	2.2	3.9	
	4-10	3.4	2.3	.7	.9	.7	1.3	1.2	2.1	.0	.0	12.6	
	11-21	4.2	1.7	1.5	1.8	.8	2.1	2.9	3.4	.0	.0	18.4	
	22+	1.1	.2	.1	.3	.8	.5	.4	.0	.0	.0	3.4	
	TOT %	8.9	4.3	2.6	3.2	2.3	3.8	5.2	5.8	.0	2.2	38.3	
TOT OBS													
TOT PCT													
		19.9	8.9	7.9	9.3	13.4	9.9	11.7	13.4	.0	5.5	100.0	713

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PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974AREA 0021 OKHOTSK SEA SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	9.3	1.0	2.4	11.2	16.1	19.5	7.8	1.0	2.4	.5	71.2	28.8	205
06009	12.2	.8	1.7	10.9	20.6	15.5	5.5	1.7	1.7	.0	70.6	29.4	238
12015	17.3	.5	1.6	10.3	11.9	7.6	4.3	.5	.0	.0	54.1	45.9	185
18021	19.2	.0	1.7	12.4	17.5	9.6	5.6	.6	1.1	.0	67.8	32.2	177
TOT	114	5	15	90	135	108	47	8	11	1	534	271	805
PCT	14.2	.6	1.9	11.2	16.8	13.4	5.8	1.0	1.4	.1	66.3	33.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	9.3	3.5	4.4	13.7	27.9	41.2	226
06009	10.0	5.0	3.8	10.0	26.2	45.0	260
12015	9.3	5.3	5.3	15.0	27.3	37.9	227
18021	14.4	3.5	4.0	16.3	24.8	37.1	202
TOT	97	40	40	124	243	371	915
PCT	10.6	4.4	4.4	13.6	26.6	40.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	9.5	16.4	33.3	38.8	27.9	201
06009	12.4	18.0	33.9	38.6	27.5	233
12015	18.6	23.8	40.7	18.6	40.7	172
18021	20.1	25.4	44.4	26.0	29.6	169
TOT	114	159	291	244	240	775
PCT	14.7	20.5	37.5	31.5	31.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
40/44	.0	.0	.0	.4	.8	.0	.4	.0	4	1.5
35/39	.0	.0	.0	.8	1.1	2.6	1.5	9.1	40	15.1
30/34	.0	.0	.0	.0	.8	3.4	13.2	38.5	148	55.8
25/29	.0	.0	.0	.4	.8	.8	2.6	18.5	61	23.0
20/24	.0	.0	.0	.0	.4	.0	.4	3.0	10	3.8
15/19	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	0	0	4	11	18	48	184	265	100.0
PCT	.0	.0	.0	1.5	4.2	6.8	18.1	69.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
0.0	0.0	.4	.0	.0	.0	.0	.0	.0	.0
.0	.2	.6	.0	.0	.0	.0	.4	.0	.4
2.4	1.8	1.1	1.9	3.6	.3	1.3	.1	.0	2.6
10.6	4.2	4.3	4.1	14.9	4.9	5.0	6.7	.0	1.1
6.4	.4	.0	.9	1.3	1.6	5.4	6.6	.3	.4
1.3	.0	.0	.0	.0	.8	.4	.9	.0	.4
.0	.0	.0	.0	.0	.0	.0	.4	.0	.0
20.7	6.6	6.4	6.9	19.8	7.5	12.1	15.1	.0	4.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	50	45	41	32	24	18	15	32.1	224
06009	45	43	39	32	25	21	11	31.5	250
12015	48	41	36	30	19	17	14	29.3	224
18021	48	41	36	30	21	12	12	29.2	198
TOT	50	43	38	30	23	18	11	30.6	896

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	1.5	4.6	16.9	13.8	63.1	88	65
06009	.0	2.6	3.9	6.5	23.4	63.6	90	77
12015	.0	1.4	4.2	4.2	19.4	70.8	92	72
18021	.0	1.5	3.1	.0	12.3	83.1	93	65
TOT	0	5	11	19	49	195	91	279

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PERIOD: (PRIMARY) 1966-1974
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	3	.0	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	3	.0	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.4	.5	.4	6	.0	1.1
7/8	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	5	.0	.5
6	.0	.0	.0	.0	.0	.0	.4	.9	.4	.4	11	.0	2.0
5	.0	.0	.0	.0	.0	.0	3.1	1.8	.0	.0	27	.5	4.4
4	.0	.0	.0	.0	.0	1.1	5.3	.2	.4	.0	38	.4	6.5
3	.0	.0	.0	.0	.0	2.5	3.4	.7	.2	.0	38	.9	6.0
2	.0	.0	.0	.0	.0	6.2	3.3	.0	.2	.0	53	2.2	7.4
1	.0	.0	.0	.0	.0	8.2	1.8	.7	.0	.0	59	2.7	8.0
0	.0	.0	.0	.0	1.5	8.5	1.1	.2	.0	.0	63	2.0	9.4
-1	.0	.0	.0	.0	1.3	4.2	.2	.2	.0	.0	32	.4	5.4
-2	.0	.0	.0	.0	4.0	5.6	1.3	.0	.0	.0	60	.5	10.3
-3	.0	.0	.0	.0	3.4	2.0	.4	.0	.0	.0	32	.4	5.4
-4	.0	.0	.0	.0	4.2	1.5	.4	.0	.0	.0	33	.0	6.0
-5	.0	.0	.0	.5	4.0	1.8	.0	.0	.0	.0	35	.5	5.8
-6	.0	.0	.0	.7	1.3	.5	.0	.0	.0	.0	14	.2	2.4
-7/-8	.0	.0	.0	1.3	1.1	.5	.0	.0	.0	.0	16	.7	2.2
-9/-10	.0	.0	.4	.9	.4	.4	.0	.0	.0	.0	11	.0	2.0
-11/-13	.0	.0	.7	.4	.4	.0	.0	.0	.0	.0	8	.2	1.3
-14/-16	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
-17/-19	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-20/-22	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	1	8	21	118	237	113	33	11	8	551	66	485
PCT	.2	.2	1.5	3.8	21.4	43.0	20.5	6.0	2.0	1.5	100.0	12.0	88.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.0	.8	.0	.0	.0	5.6	.2	1.7	.7	.0	.0	.0	2.6
1-2	.5	2.6	2.6	.0	.0	.0	5.7	.1	1.2	2.1	.0	.0	.0	3.5
3-4	.0	.2	1.7	1.0	.0	.0	3.0	.0	.8	.7	.1	.0	.0	1.5
5-6	.0	.0	1.7	.9	.0	.0	2.7	.0	.0	.4	.1	.0	.0	.5
7	.0	.0	1.5	.2	.0	.0	1.7	.0	.0	.5	.0	.1	.0	.6
8-9	.0	.0	.7	.5	.2	.0	1.4	.0	.0	.2	.2	.0	.0	.5
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.8	9.0	3.3	.2	.0	19.7	.3	3.7	4.7	.4	.1	.0	9.2

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.5	.0	.0	.0	.7	.2	.8	.5	.0	.0	.0	1.5
1-2	.0	.9	1.2	.0	.0	.0	2.2	.0	1.3	.8	.0	.0	.0	2.1
3-4	.2	.4	1.5	.2	.0	.0	2.4	.0	.3	1.4	.5	.0	.0	2.3
5-6	.0	.0	.4	.2	.2	.0	.8	.0	.1	1.1	.6	.1	.0	1.8
7	.0	.0	.4	.0	.2	.0	.6	.0	.0	.2	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.3	.0	1.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.7	.0	.0	1.0
12	.0	.0	.0	.3	.2	.0	.2	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.3	4.3	.4	.5	.0	7.0	.2	2.4	4.9	3.1	.7	.0	11.4

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0021 OZHOTSK SEA SE
52.7N 154.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.7	.0	.0	.0	1.7	.2	1.1	.0	.0	.0	.0	1.3
1-2	.2	2.1	2.7	.0	.0	.0	5.0	.1	1.1	1.5	.0	.0	.0	2.7
3-4	.0	.5	1.6	1.3	.0	.0	3.4	.0	.2	1.2	.5	.0	.0	2.0
5-6	.0	.4	.6	.6	.0	.0	1.6	.0	.0	.6	.5	.0	.0	1.1
7	.0	.0	.2	.4	.0	.0	.6	.0	.0	.5	.0	.2	.0	.7
8-9	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	6.3	2.5	.2	.0	13.2	.3	2.4	3.8	1.2	.2	.0	7.9

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	1.1	.0	.0	.0	.0	1.8	.2	2.0	1.1	.0	.0	.0	3.3
1-2	.7	.9	1.7	.0	.0	.0	3.3	.1	1.1	2.5	.0	.0	.0	3.7
3-4	.0	.2	1.3	.0	.0	.0	1.5	.0	.0	1.2	.6	.0	.0	1.8
5-6	.0	.3	1.4	.7	.0	.0	2.5	.0	.0	1.1	.5	.2	.0	1.9
7	.0	.0	.5	.5	.0	.0	.9	.0	.2	.7	.2	.0	.0	1.1
8-9	.0	.0	.4	.2	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.1	.2	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	2.8	5.5	1.8	.0	.0	11.5	.3	3.4	6.9	1.4	.5	.0	12.5 92.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.0	10.7	4.3	.0	.0	.0	24.9	
1-2	1.9	11.4	15.2	.0	.0	.0	28.4	
3-4	.2	2.6	10.7	4.3	.0	.0	17.8	
5-6	.0	.9	7.3	4.0	.5	.0	12.8	
7	.0	.2	4.5	1.4	.5	.0	6.6	
8-9	.0	.0	2.1	1.7	.7	.0	4.5	
10-11	.0	.0	.9	1.4	.2	.0	2.6	
12	.0	.0	.0	.7	.2	.0	.9	
13-16	.0	.0	.0	.5	.2	.0	.7	
17-19	.0	.0	.5	.2	.0	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.1	25.8	45.5	14.2	2.4	.0	100.0	422

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.0	16.5	9.2	6.2	1.8	.7	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	3
6-7	.3	1.5	6.8	4.5	4.5	2.7	2.3	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	6
8-9	.0	.2	2.0	3.0	1.0	.3	.7	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	6
10-11	.0	.5	.3	.3	.7	.0	.0	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	.3	.0	.2	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	
>13	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
INDET	8.5	1.5	4.7	3.0	1.8	1.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	3
TOTAL	101	121	140	102	61	28	24	12	6	4	0	0	0	0	0	0	0	0	0	599	4
PCT	16.9	20.2	23.4	17.0	10.2	4.7	4.0	2.0	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

MAY

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	OTHER WEATHER PHENOMENA					
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL				FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
N	1.6	.0	3.0	.0	4.9	.0	.0	9.4	.8	.0	25.9	.0	.0	.0	.0	63.9
NE	15.2	1.9	.9	1.9	2.4	.0	.0	20.4	.5	.0	24.6	1.9	.0	.0	.0	52.6
E	9.9	.0	3.1	.0	9.9	.0	.0	23.0	5.8	.0	12.0	2.1	.0	.0	.0	57.1
SE	17.7	.0	2.4	.0	6.2	.0	.0	26.4	2.4	.0	21.9	.0	.2	.8	.0	48.3
S	6.9	.0	6.0	.0	3.1	.0	.0	18.1	2.7	.0	27.0	1.8	.7	.0	.0	51.8
SW	5.1	.0	3.8	.0	5.8	2.6	.0	17.3	.0	.0	42.3	.0	.0	.0	.0	40.4
W	.0	.0	1.6	.0	11.6	.0	.0	13.2	2.1	.0	30.5	.0	.0	.0	.0	54.2
NW	.0	.0	2.8	.0	3.1	.0	.0	5.9	1.6	.0	27.2	.0	.0	.0	.0	65.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	2.4	.0	.0	2.4	2.4	.0	35.7	.0	.0	.0	.0	59.5
TOT PCT	7.2	.2	3.0	.2	5.2	.2	.0	15.7	2.0	.0	26.3	.6	.2	.2	.2	55.0
TOT OBS:	638															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	OTHER WEATHER PHENOMENA					
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL				FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
00003	4.0	.0	1.7	.0	2.3	.6	.0	8.7	1.2	.0	26.6	1.7	.6	.0	.0	61.3
06009	4.7	.0	1.2	.0	5.3	.0	.0	11.2	3.5	.0	25.9	.0	.0	.0	.0	59.4
12015	11.2	.5	3.7	.5	8.0	.0	.0	23.5	2.1	.0	26.2	.0	.0	.5	.0	47.6
18021	9.6	.0	4.8	.7	4.8	.0	.0	19.9	.7	.0	23.3	1.4	.0	.0	.0	54.8
TOT PCT	7.4	.1	2.8	.3	5.2	.1	.0	15.8	1.9	.0	25.6	.7	.1	.1	.1	55.6
TOT OBS:	676															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	5.9	5.4	1.0	.0	.0		13.5	11.5		14.9	7.8	20.1	17.7	9.1	1.7	15.4	16.1
NE	.8	4.0	2.8	.9	.0	.0		8.5	11.8		5.9	6.4	8.2	12.2	8.9	10.2	11.7	6.0
E	.1	2.5	2.7	.5	.6	.0		6.4	14.7		5.7	5.4	9.6	4.9	6.7	6.3	4.2	3.0
SE	.7	5.1	5.3	4.8	1.7	.0		17.7	17.7		19.8	19.1	10.7	17.1	16.7	27.3	19.0	18.5
S	2.1	4.9	7.5	4.0	.3	.0		18.8	14.7		22.9	19.1	18.9	20.7	15.2	19.9	17.8	16.1
SW	1.1	3.2	2.6	.3	.0	.0		7.2	9.8		8.5	11.3	3.0	6.1	7.4	8.5	6.6	10.1
W	.7	3.5	2.1	.8	.3	.0		7.5	12.7		5.9	6.4	11.7	8.5	8.3	6.3	4.8	6.0
NW	.5	6.2	6.2	.8	.0	.0		13.7	11.9		11.8	12.7	13.1	10.4	18.9	13.1	12.0	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8							6.8	.0		4.7	11.8	4.7	2.4	8.7	6.8	8.4	7.1
TOT OBS	82	208	204	77	18	0	589		12.7		106	51	107	41	115	44	83	42
TOT PCT	13.9	35.3	34.6	13.1	3.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	06	12
N	2.8	7.8	2.7	.2	.0		13.5	11.5	12.6	19.4	7.1	15.6
NE	2.0	4.2	2.3	.0	.0		8.5	11.8	6.1	9.3	9.3	9.8
E	1.0	3.6	1.0	.4	.3		6.4	14.7	5.8	8.3	6.6	4.8
SE	2.4	6.9	4.5	3.7	.2		17.7	17.7	19.8	12.5	19.7	18.8
S	3.6	6.8	7.0	1.4	.0		18.8	14.7	21.7	19.4	16.5	17.2
SW	2.7	3.2	1.3	.0	.0		7.2	9.8	9.4	3.9	7.7	7.8
W	2.1	3.1	1.6	.7	.0		7.5	12.7	6.1	10.8	7.7	5.2
NW	3.9	6.0	3.7	.0	.0		13.7	11.9	12.1	12.3	17.3	12.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.8						6.8	.0	7.0	4.1	8.2	8.0
TOT OBS	161	245	142	38	3	589		12.7	157	148	159	125
TOT PCT	27.3	41.6	24.1	6.5	.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

MAY

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.0	7.6	34.4	31.8	15.3	3.8	.0	12.9	100.0	157
0600	4.1	6.1	37.8	37.2	10.8	4.1	.0	13.3	100.0	148
1200	8.2	6.3	34.6	35.6	12.6	2.5	.0	12.4	100.0	159
1800	8.0	8.8	34.4	33.6	13.6	1.6	.0	12.0	100.0	125
TOT	40	42	208	204	77	18	0	12.7		589
PCT	6.8	7.1	35.3	34.6	13.1	3.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.2	4.5	8.9		6.4
NE	.6	.2	1.9	5.0		6.9
E	.4	.2	1.6	5.1		7.1
SE	.4	.6	1.1	16.9		7.6
S	2.1	.4	1.0	13.3		6.7
SW	.4	*	.4	5.1		7.3
W	1.0	.3	.5	6.3		6.8
NW	.8	1.3	2.7	6.7		6.5
VAR	.0	.0	.0	.0		.0
CALM	2.3	.2	.8	4.0		5.3
TOT OBS	52	23	77	376	528	6.8
TOT PCT	9.8	4.4	14.6	71.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.3	.0	.1	2.2	2.8	1.1	.9	.0	.2	.0	5.8	
NE	1.8	.2	.2	.5	2.0	1.0	.4	.0	.0	.2	1.4	
E	1.6	.0	.3	.6	1.9	1.3	.1	.2	.0	.0	1.1	
SE	5.8	.2	.4	5.1	3.4	1.4	.7	.2	.2	.2	1.4	
S	3.8	.8	.7	3.2	4.2	.6	.1	.2	.2	.1	2.8	
SW	.9	.0	.0	1.6	1.1	1.2	.2	.0	*	.0	.9	
W	2.1	.0	.1	.9	1.8	1.4	.0	.0	.1	.0	1.6	
NW	2.2	.2	.1	2.9	1.1	1.7	.4	.2	.2	.2	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	1.1	.8	.6	.2	.0	.0	.0	2.8	
TOT OBS	123	7	11	96	101	54	16	4	5	4	107	528
TOT PCT	23.3	1.3	2.1	18.2	19.1	10.2	3.0	.8	.9	.8	20.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	1.5	1.7	1.7	1.7	1.7	1.7	1.7
= OR >5000	1.1	2.0	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	2.6	4.1	5.2	5.3	5.3	5.7	5.7	5.7
= OR >2000	8.1	12.5	14.4	14.9	15.1	15.5	15.7	15.7
= OR >1000	13.3	24.5	30.8	33.1	33.9	34.8	35.0	35.0
= OR >600	16.4	32.4	45.1	48.8	50.3	51.7	52.5	52.5
= OR >300	16.9	33.7	46.4	50.6	52.1	53.8	54.5	54.5
= OR >150	16.9	34.3	47.1	51.6	53.0	54.7	55.8	55.8
= OR >0	17.1	35.2	49.7	55.6	58.7	65.7	77.0	78.8
TOTAL	93	191	270	302	319	357	418	428

TOTAL NUMBER OF OBS: 543

PCT FREQ NH <5/8: 21.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.0	3.4	4.1	2.7	3.6	2.4	4.6	4.4	46.2	21.6	587

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

MAY

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.3	.6	.8	.0	.0	.0	.0	.0	.0	2.0
	NO PCP	2.7	1.6	.7	3.1	2.7	1.9	1.6	3.0	.0	1.9	18.7	
	TOT %	2.8	1.7	1.0	3.7	3.5	1.9	1.6	3.0	.0	1.9	20.8	
1/2<1	PCP	.1	.3	.0	.3	.2	.0	.2	*	.0	.0	1.1	
	NO PCP	.0	.2	.2	.3	.6	.4	.3	.0	.0	.0	2.0	
	TOT %	.1	.6	.2	.6	.7	.4	.5	*	.0	.0	3.1	
1<2	PCP	.2	.7	.2	2.3	.7	*	.2	.2	.0	.2	4.6	
	NO PCP	.0	.2	.0	.5	.4	.0	.3	.4	.0	.2	1.9	
	TOT %	.2	.8	.2	2.8	1.1	*	.4	.5	.0	.3	6.5	
2<5	PCP	.4	.3	.6	1.7	1.1	.7	.6	.5	.0	.0	5.8	
	NO PCP	1.8	1.1	.4	2.8	2.1	.7	.1	1.8	.0	.8	11.7	
	TOT %	2.2	1.4	1.1	4.5	3.2	1.3	.7	2.3	.0	.8	17.5	
5<10	PCP	.4	.3	.4	.2	.2	.2	.1	*	.0	.0	1.7	
	NO PCP	3.9	2.0	1.9	5.0	5.1	1.0	1.0	2.8	.0	1.4	23.9	
	TOT %	4.3	2.2	2.2	5.1	5.2	1.2	1.1	2.8	.0	1.4	25.7	
10+	PCP	.2	.0	.2	.0	.1	.2	.0	.0	.0	.0	.6	
	NO PCP	4.7	1.5	2.4	2.6	3.7	1.5	3.2	3.9	.0	2.2	25.8	
	TOT %	4.9	1.5	2.6	2.6	3.8	1.8	3.2	3.9	.0	2.2	26.5	
TOT OBS													635
TOT PCT		14.5	8.3	7.4	19.4	17.6	6.2	7.5	12.6	.0	6.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.7	.0	.0	*	.1	.2	.2	.1	.0	2.1	3.5	
	4-10	1.4	1.8	.3	1.9	.8	.8	.9	2.6	.0		10.5	
	11-21	.8	.0	.3	1.6	1.4	.6	.2	.9	.0		5.9	
	22+	.0	.2	.5	.2	1.1	*	.0	.0	.0		2.0	
	TOT %	2.9	2.0	1.1	3.7	3.4	1.7	1.3	3.6	.0	2.1	21.8	
1/2<1	0-3	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.5	
	4-10	.1	.1	.1	.2	.4	.3	.0	*	.0		1.2	
	11-21	.0	.5	.0	.0	.0	.2	.2	.0	.0		.9	
	22+	.0	.0	.2	.5	.2	.0	.4	.0	.0		1.2	
	TOT %	.1	.6	.3	.7	.9	.7	.5	*	.0	.0	3.9	
1<2	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.4	.5	
	4-10	.0	.0	.0	.1	.3	.0	.2	.2	.0		.7	
	11-21	.0	.6	.1	.4	.5	.0	.0	.4	.0		2.0	
	22+	.2	.2	.0	1.7	.6	*	.2	.0	.0		2.8	
	TOT %	.2	.8	.1	2.2	1.4	.1	.4	.5	.0	.4	6.0	
2<5	0-3	.2	.0	.0	.2	.6	.6	.0	.0	.0	.7	2.3	
	4-10	.9	.8	.5	.4	.4	.3	.6	1.2	.0		5.1	
	11-21	1.2	.4	.3	.6	1.6	.5	.3	1.8	.0		6.7	
	22+	.0	.2	.1	3.0	1.1	.0	.2	.2	.0		4.8	
	TOT %	2.3	1.4	.9	4.3	3.7	1.4	1.1	3.1	.0	.7	19.0	
5<10	0-3	.2	.5	.1	.3	.5	.0	.3	.3	.0	1.4	3.5	
	4-10	1.0	.8	.5	1.3	1.1	.5	.2	.9	.0		6.2	
	11-21	1.4	.6	1.2	1.9	2.8	.6	.3	1.0	.0		9.9	
	22+	.4	*	.1	1.3	1.2	.0	.0	.7	.0		3.7	
	TOT %	2.9	2.0	2.0	4.7	5.6	1.1	.8	2.9	.0	1.4	23.4	
10+	0-3	.1	.2	.0	.2	.4	.1	.3	.1	.0	2.1	3.3	
	4-10	2.6	.6	.7	1.2	2.0	1.1	1.6	1.5	.0		11.2	
	11-21	2.0	.5	.7	.9	1.4	.6	1.2	2.1	.0		9.4	
	22+	.4	.4	.2	*	.9	.2	.4	.0	.0		1.8	
	TOT %	5.0	1.7	1.6	2.3	4.1	2.0	3.5	3.7	.0	2.1	25.9	
TOT OBS													564
TOT PCT		13.5	8.5	6.0	17.9	19.1	7.0	7.5	13.9	.0	6.7	100.0	

MAY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	18.8	.0	1.4	20.1	17.4	13.9	3.5	.7	.7	1.4	77.8	22.2	144
06009	20.9	.7	2.0	14.9	23.0	7.4	4.1	1.4	2.0	.0	76.4	23.6	148
12015	28.7	2.1	.7	14.7	18.2	10.5	1.4	.0	.7	.0	76.9	23.1	143
18021	21.9	2.3	2.9	23.4	16.4	8.6	3.9	.8	.0	1.6	82.8	17.2	128
TOT	127	7	11	102	106	57	18	4	5	4	441	122	563
PCT	22.6	1.2	2.0	18.1	18.8	10.1	3.2	.7	.9	.7	78.3	21.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	15.9	3.4	4.5	18.8	26.7	26.7	176
06009	18.8	2.3	6.1	16.5	25.6	30.7	176
12015	24.0	3.1	7.8	20.8	22.9	21.4	192
18021	18.4	5.3	8.4	15.8	25.0	27.0	152
TOT	142	24	47	126	174	183	696
PCT	20.4	3.4	6.8	18.1	25.0	26.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	19.3	27.9	55.0	28.6	16.4	140
06009	20.1	26.4	51.4	29.2	19.4	144
12015	30.1	37.5	64.7	16.9	18.4	136
18021	22.8	31.7	62.6	22.8	14.6	123
TOT	125	167	316	133	94	543
PCT	23.0	30.8	58.2	24.5	17.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.5	.9	3.3	10	4.7
40/44	.0	.0	.0	.0	.5	.5	2.8	.9	10	4.7
35/39	.0	.0	.0	.9	.5	3.7	10.7	35.5	110	51.4
30/34	.0	.0	.0	.0	.0	.9	4.2	32.2	80	37.4
25/29	.0	.0	.0	.0	.0	.0	.0	1.9	4	1.9
TOTAL	.0	.0	.0	2	2	12	40	158	214	100.0
PCT	.0	.0	.0	.9	.9	5.6	18.7	73.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.3	.5	.0	.0	.0	.0	.0	.1	.0	2.3
1.9	.5	.4	.7	.4	.0	.0	.0	.0	.9
8.9	4.8	4.7	16.0	8.4	2.8	1.5	.6	.0	3.7
2.9	1.4	1.8	11.1	6.8	2.7	2.5	6.0	.0	2.3
1.2	.0	.0	.0	.0	.0	.0	.2	.0	.5
16.1	7.1	6.8	27.8	15.5	5.5	4.0	6.9	.0	10.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	48	46	36	30	30	25	36.9	174
06009	51	50	45	36	30	28	27	36.2	172
12015	47	45	40	34	28	25	21	34.3	191
18021	50	46	41	34	30	28	27	34.6	155
TOT	61	48	43	36	30	27	21	35.5	692

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	.0	12.3	24.6	61.4	90	57
06009	.0	.0	1.8	9.1	16.4	72.7	92	55
12015	.0	.0	1.7	.0	13.8	84.5	95	58
18021	.0	1.8	.0	3.6	19.6	75.0	93	56
TOT	0	2	2	14	42	166	93	226

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1964-1974

MAY
TABLE 17

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	WU FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
14/16	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
11/13	.0	.0	.0	.0	.2	1.5	.2	.0	.0	.0	10	.0	1.9
9/10	.0	.0	.0	.9	.4	.7	.2	.0	.0	.0	12	.0	2.2
7/8	.0	.0	.0	1.7	1.7	.4	.0	.0	.0	.0	20	.6	3.2
6	.0	.0	.6	3.0	.7	.0	.2	.0	.0	.0	24	.7	3.7
5	.0	.0	3.3	5.4	.6	.4	.0	.0	.0	.0	52	1.7	8.0
4	.0	.4	6.5	3.9	.6	.2	.0	.0	.0	.0	62	1.7	9.8
3	.0	.6	3.2	2.2	.6	.0	.0	.0	.0	.0	35	.6	5.9
2	.0	.6	8.0	2.8	.6	.4	.0	.0	.0	.0	66	4.1	8.2
1	.0	2.0	4.8	1.7	.4	.0	.0	.0	.0	.0	48	2.8	6.1
0	.2	5.8	6.3	1.3	.6	.2	.0	.0	.0	.0	77	4.8	9.5
-1	.2	2.0	2.4	.7	.0	.0	.0	.0	.0	.0	29	2.0	3.3
-2	.2	4.6	4.1	1.3	.0	.2	.0	.0	.0	.0	56	3.0	7.4
-3	.2	.7	.4	.4	.0	.0	.0	.0	.0	.0	9	.2	1.5
-4	.2	1.3	1.1	.4	.0	.0	.0	.0	.0	.0	16	1.5	1.5
-5	.2	.7	.9	.0	.0	.0	.0	.0	.0	.0	10	.9	1.0
-6	.0	.2	.6	.0	.0	.0	.0	.0	.0	.0	4	.0	.7
-7/-8	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.7
-9/-10	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.4	.0
TOTAL	8	104	229	138	33	22	3	1	0	1	539	134	405
PCT	1.9	19.3	42.5	25.6	6.1	4.1	.6	.2	.0	.2	100.0	24.9	75.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.9	.7	.0	.0	.0	4.8	.6	1.3	.6	.0	.0	.0	2.5
1-2	.0	1.6	2.8	.0	.0	.0	4.4	.0	1.1	.6	.0	.0	.0	1.8
3-4	.0	.4	1.6	.6	.0	.0	2.6	.3	.0	.8	.1	.0	.0	1.2
5-6	.0	.3	.4	.3	.0	.0	1.0	.0	.3	.4	.3	.0	.0	1.0
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.3	6.4	1.7	.0	.0	14.5	.8	2.7	2.5	1.2	.1	.0	7.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.8	.0	.0	.0	1.8	.1	1.5	.3	.0	.0	.0	1.9
1-2	.0	1.4	.4	.0	.0	.0	1.8	.0	1.8	2.8	.0	.0	.0	4.6
3-4	.0	.3	1.1	.8	.0	.0	2.1	.0	1.1	1.8	1.5	.0	.0	4.4
5-6	.0	.0	.2	.0	.2	.0	.4	.0	.0	.6	2.2	.1	.0	2.9
7	.0	.0	.4	.0	.6	.0	1.0	.0	.0	.4	.3	.3	.0	1.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.1	.3	.0	.4
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3	.8	.3	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	3.2	.8	1.0	.0	7.7	.1	4.4	6.1	5.9	1.2	.0	17.3

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0021 OKHOTSK SEA SE
52.9N 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	2.7	.3	.0	.0	.0	5.1	.8	1.4	.3	.0	.0	.0	2.5
1-2	.3	.2	1.2	.0	.0	.0	1.7	.0	.8	.6	.0	.0	.0	1.4
3-4	.0	1.6	2.2	.2	.0	.0	4.1	.0	1.1	1.2	.0	.0	.0	2.2
5-6	.0	.0	2.5	1.4	.0	.0	3.9	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	1.1	.5	.3	.0	1.8	.0	.0	.1	.4	.0	.0	.4
8-9	.0	.3	.3	.8	.3	.0	1.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	4.8	7.5	3.6	.6	.0	18.9	.8	3.2	2.8	.4	.0	.0	7.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.0	.0	.0	.0	.0	1.4	.0	1.8	.4	.0	.0	.0	2.2	
1-2	.2	1.2	.8	.0	.0	.0	2.2	.1	.9	3.9	.0	.0	.0	4.9	
3-4	.0	.7	.9	.0	.0	.0	1.6	.0	1.0	2.2	.0	.0	.0	3.2	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.6	1.5	.8	.0	.0	2.9	
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	2.9	2.2	.8	.0	.0	6.6	.1	4.3	8.8	1.1	.0	.0	14.3	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	13.8	3.4	.0	.0	.0	28.4	
1-2	.6	9.0	13.2	.0	.0	.0	22.8	
3-4	.3	6.2	11.8	3.1	.0	.0	21.3	
5-6	.0	1.1	6.5	5.1	.3	.0	12.9	
7	.0	.0	3.4	2.2	1.1	.0	6.7	
8-9	.0	.3	.8	1.7	.6	.0	3.4	
10-11	.0	.0	.6	1.7	.6	.0	2.8	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.8	.3	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.1	30.3	39.6	15.2	2.8	.0	100.0	356

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.3	14.3	12.7	6.6	3.5	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	3
6-7	.0	1.2	4.8	5.6	1.7	1.7	1.2	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	6
8-9	.0	.6	1.0	3.5	3.1	.2	1.7	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	7
10-11	.0	.4	.0	.2	.8	.8	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
12-13	.0	.0	.6	.2	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	18
INDEX	5.0	2.1	4.4	3.1	2.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	3
TOTAL	69	90	113	93	55	24	23	7	5	3	0	0	0	0	0	0	0	0	0	482	4
PCT	14.3	18.7	23.4	19.3	11.4	5.0	4.8	1.5	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.6	.7	1.6	.0	.0	.0	.0	4.9	.9	.0	39.6	1.6	.7	.0	52.2
NE	9.8	.0	.0	.0	1.8	.0	.0	11.6	2.2	.0	36.2	.0	.0	.0	50.0
E	17.4	.0	3.3	.0	.0	.0	.0	20.7	1.4	.0	32.4	.0	.0	.0	49.5
SE	10.3	.0	4.6	.0	.0	.0	.0	13.7	2.7	.0	39.8	.0	.2	.2	43.2
S	10.2	.0	4.4	.0	.0	.0	.0	14.2	1.1	.0	51.1	.6	.5	.5	32.1
SW	3.0	2.4	3.6	.0	.0	.0	.0	9.0	1.9	1.2	43.3	.0	1.2	.0	43.9
W	.0	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	36.3	1.4	.0	.0	56.7
NW	1.0	.3	2.3	.0	.0	.0	.0	3.7	.0	.0	53.0	2.3	.3	.0	40.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	.0	44.6	.0	.0	.0	53.6
TOT PCT	6.3	.4	3.1	.0	.1	.0	.0	9.7	1.1	.1	43.3	.8	.4	.1	44.5
TOT OBS:	796														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
00Z03	5.0	.0	1.5	.0	.0	.0	.0	6.5	1.5	.5	41.5	.5	1.0	.0	.0	48.5
06Z09	6.9	.5	3.0	.0	.0	.0	.0	10.3	.5	.0	43.8	.5	.0	.0	.0	44.8
12Z15	7.7	.0	4.3	.0	.0	.0	.0	11.5	.5	.0	44.7	.5	.0	.5	.0	42.3
18Z21	4.9	1.0	3.4	.0	.5	.0	.0	9.3	2.4	.0	44.4	1.5	.5	.0	.0	42.0
TOT PCT	6.1	.4	3.1	.0	.1	.0	.0	9.4	1.2	.1	43.6	.7	.4	.1	.0	44.4
TOT OBS:	816															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	7.5	3.6	.2	.0	.0		12.7	8.8		18.0	7.8	15.6	10.2	14.0	9.0	14.8	10.2
NE	.9	3.9	1.7	.2	.0	.0		6.7	8.5		8.6	8.1	3.2	9.1	8.7	3.4	5.7	6.3
E	.6	4.5	1.8	.5	.0	.0		7.4	9.3		4.9	10.8	6.9	6.8	7.4	8.0	7.3	6.9
SE	.6	7.1	5.0	1.3	.0	.0		14.0	11.5		13.3	8.1	13.6	15.1	14.8	18.3	13.8	15.1
S	1.3	10.6	8.9	1.0	.0	.0		21.4	10.8		21.1	24.5	28.2	21.6	16.9	22.9	17.9	20.7
SW	1.5	6.2	3.3	.1	.0	.0		11.1	8.5		11.7	18.3	13.6	3.9	13.3	9.3	10.2	7.6
W	1.5	6.2	1.4	.0	.0	.0		9.1	7.2		7.0	7.3	4.5	11.2	9.3	10.3	14.2	7.2
NW	1.0	7.8	2.8	.0	.0	.0		11.6	8.3		9.1	12.1	8.4	11.7	11.9	15.7	13.0	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0							6.0	.0		6.3	3.2	5.9	10.4	3.8	3.1	3.1	15.8
TOT OBS	121	440	230	27	0	0	818		8.9		96	93	101	96	132	97	127	76
TOT PCT	14.8	53.8	28.1	3.3	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	5.2	6.5	.9	.1	.0		12.7	8.8	13.0	12.9	11.9	13.1	
NE	3.1	3.0	.6	.0	.0		6.7	8.5	8.3	6.1	6.4	5.9	
E	3.2	3.4	.8	.0	.0		7.4	9.3	7.8	6.9	7.6	7.1	
SE	3.5	7.9	2.0	.6	.0		14.0	11.5	10.7	14.3	16.3	14.3	
S	5.4	13.0	3.0	.0	.0		21.4	10.8	22.8	25.0	19.4	19.0	
SW	5.1	4.9	1.1	.0	.0		11.1	8.5	14.9	8.9	11.6	9.2	
W	4.6	4.3	.2	.0	.0		9.1	7.2	7.1	7.7	9.7	11.6	
NW	3.9	7.7	.0	.0	.0		11.6	8.3	10.6	10.0	13.5	11.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.0						6.0	.0	4.8	8.1	3.5	7.9	
TOT OBS	328	414	70	6	0	818		8.9	189	197	229	203	
TOT PCT	40.1	50.6	8.6	.7	.0		100.0		100.0	100.0	100.0	100.0	

JUNE

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.8	9.5	54.5	27.0	4.2	.0	.0	.0	9.0	100.0	189
06009	8.1	9.1	48.7	31.5	2.5	.0	.0	.0	8.8	100.0	197
12015	3.5	9.2	56.3	27.9	3.1	.0	.0	.0	8.9	100.0	229
18021	7.9	7.4	55.2	26.1	3.4	.0	.0	.0	8.6	100.0	203
TOT	49	72	440	230	27	0	0	0	8.9		818
PCT	6.0	8.8	53.8	28.1	3.3	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											TOTAL OBS
							000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	
N	1.5	1.5	1.6	9.7		6.5	4.4	.0	.0	1.3	2.9	1.3	.2	.2	.1	.0	3.9	
NE	.4	.4	.5	5.7		7.2	2.3	.3	.0	.2	1.4	1.0	.3	.0	.4	.0	1.0	
E	.6	.6	1.1	4.9		6.9	1.1	.0	.1	.8	2.5	.8	.0	.0	.0	.2	1.9	
SE	1.1	.5	2.1	9.9		7.1	4.0	.0	.1	.8	2.9	2.4	1.0	.0	.2	.0	2.2	
S	1.0	.7	2.0	12.7		7.2	7.8	.0	.1	3.0	3.4	2.1	.2	.0	.3	.2	2.2	
SW	.8	.4	1.1	3.5		6.9	2.1	.0	.0	1.4	1.2	1.4	.3	.0	.0	.0	1.3	
W	1.1	.8	1.0	6.0		6.5	2.8	.0	.0	1.2	1.8	.5	.2	.0	.1	.0	2.3	
NW	1.1	.3	1.0	11.0		7.1	7.1	.0	.0	.8	2.8	.8	.2	.2	.2	.0	2.2	
VAK	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.3	.8	6.9		7.3	3.4	.3	.7	.8	1.3	.5	.0	.0	.0	.2	1.2	
TOT OBS	47	33	67	449	596	7.0	208	4	6	62	120	60	14	2	8	3	109	596
TOT PCT	7.9	5.5	11.2	75.3	100.0		34.9	.7	1.0	10.4	20.1	10.1	2.3	.3	1.3	.5	18.3	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.4	1.4	1.7	1.7	1.7	1.9	1.9	1.9
>3000	1.5	1.7	2.0	2.0	2.0	2.2	2.2	2.2
>2500	2.9	3.6	4.3	4.3	4.3	4.4	4.4	4.4
>2000	6.1	9.9	13.3	14.0	14.2	14.5	14.7	14.7
>1000	9.6	20.6	29.9	32.3	32.6	33.6	33.8	33.8
>600	10.6	23.7	36.3	40.8	42.3	43.9	44.0	44.0
>300	10.9	24.1	36.9	41.5	43.0	44.5	44.9	44.9
>150	11.1	24.4	37.5	42.2	43.7	45.2	45.6	45.6
>0	11.1	24.9	38.9	43.1	49.1	58.4	79.2	82.1
TOTAL	65	146	228	264	288	342	464	481

TOTAL NUMBER OF OBS: 586

PCT FREQ NH <5/8: 17.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.2	4.9	3.5	2.2	1.9	1.6	2.4	4.0	40.0	632

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0021 OKHOTSK SEA SE
52.2N 159.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	1.5	.2	.3	.0	.0	.0	2.2	
	NO PCP	3.9	2.4	1.5	3.1	7.9	3.7	2.3	5.3	.0	2.6	32.1	
	TOT %	4.0	2.4	1.5	3.3	9.4	3.4	2.5	5.3	.0	2.6	34.3	
1/2<1	PCP	.1	.2	.3	.7	.2	.0	.1	.0	.0	.0	1.7	
	NO PCP	.3	.0	.0	.6	.5	.4	.2	.6	.0	.1	2.8	
	TOT %	.4	.2	.3	1.3	.8	.4	.4	.6	.0	.1	4.5	
1<2	PCP	.1	.3	.4	.6	.3	.0	.0	.3	.0	.1	2.1	
	NO PCP	1.0	.2	.4	.2	.9	.3	.3	.4	.0	.3	4.0	
	TOT %	1.1	.4	.8	.8	1.2	.3	.3	.7	.0	.4	6.0	
2<5	PCP	.3	.2	.5	.3	.4	.1	.0	.1	.0	.0	1.9	
	NO PCP	1.8	.4	.4	2.2	2.2	.9	1.3	1.2	.0	.9	11.3	
	TOT %	2.1	.7	.9	2.5	2.6	1.0	1.3	1.3	.0	.9	13.2	
5<10	PCP	.0	.0	.3	.2	.6	.6	.1	.1	.0	.0	1.9	
	NO PCP	2.5	2.2	1.8	2.8	2.7	1.4	1.6	1.1	.0	.8	17.0	
	TOT %	2.5	2.2	2.1	2.9	3.3	2.3	1.7	1.2	.0	.8	18.9	
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	3.6	1.2	1.3	2.2	3.2	3.0	2.8	3.2	.0	2.3	22.9	
	TOT %	3.6	1.3	1.3	2.2	3.2	3.0	2.8	3.2	.0	2.3	23.0	
TOT OBS													778
TOT PCT													13.8 7.2 6.8 13.0 20.5 10.3 9.0 12.3 .0 7.1 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	1.0	.3	.0	.1	.2	.6	.2	.3	.0	2.4	5.2	
	4-10	1.8	1.3	1.3	2.6	7.1	2.3	1.9	3.7	.0		22.1	
	11-21	1.2	.6	.2	1.5	2.9	1.4	.4	1.4	.0		9.6	
	22+	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	TOT %	4.0	2.2	1.6	4.2	10.6	4.3	2.5	5.5	.0	2.4	37.2	
1/2<1	0-3	.0	.0	.0	.0	.1	.*	.1	.0	.0	.1	.4	
	4-10	.1	.0	.0	.7	.3	.4	.1	.4	.0		2.0	
	11-21	.3	.1	.3	.5	.4	.0	.1	.2	.0		1.9	
	22+	.0	.1	.0	.2	.1	.0	.0	.0	.0		.4	
	TOT %	.5	.2	.3	1.3	.8	.4	.4	.6	.0	.1	4.7	
1<2	0-3	.0	.0	.1	.*	.1	.0	.0	.1	.0	.3	.7	
	4-10	.8	.1	.3	.4	.4	.1	.1	.5	.0		2.8	
	11-21	.2	.3	.2	.1	.8	.1	.1	.1	.0		2.0	
	22+	.1	.*	.3	.1	.0	.0	.0	.0	.0		.5	
	TOT %	1.2	.5	1.0	.7	1.2	.3	.2	.7	.0	.3	6.0	
2<5	0-3	.1	.0	.1	.*	.4	.*	.4	.1	.0	.7	1.9	
	4-10	1.4	.6	.1	.6	.4	.7	1.0	1.0	.0		5.9	
	11-21	.7	.2	.6	1.4	1.4	.3	.4	.2	.0		5.3	
	22+	.0	.*	.1	.5	.5	.1	.0	.0	.0		1.2	
	TOT %	2.2	.8	1.0	2.6	2.7	1.2	1.7	1.4	.0	.7	14.2	
5<10	0-3	.2	.6	.1	.1	.2	.2	.4	.2	.0	.5	2.4	
	4-10	1.4	1.2	1.4	.9	1.2	1.2	1.2	.7	.0		9.2	
	11-21	.7	.4	.4	1.5	1.9	.8	.1	.3	.0		6.1	
	22+	.0	.0	.1	.3	.0	.0	.0	.0	.0		.4	
	TOT %	2.2	2.2	2.0	2.8	3.3	2.2	1.7	1.2	.0	.5	18.1	
10+	0-3	.1	.1	.2	.3	.2	.6	.2	.3	.0	2.0	4.1	
	4-10	1.9	.8	.7	1.0	1.3	1.5	1.9	2.0	.0		11.0	
	11-21	.8	.3	.1	.4	1.5	.4	.4	.7	.0		4.5	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	3.0	1.2	1.0	1.7	2.9	2.6	2.5	3.0	.0	2.0	19.8	
TOT OBS													752
TOT PCT													13.0 7.0 6.8 13.3 21.5 11.0 9.0 12.4 .0 6.0 100.0

JUNE

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974AREA 0021 UKHOTS SEA SE
52.2N 153.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	25.0	1.4	.7	15.0	17.9	14.3	3.6	1.4	2.9	1.4	83.6	16.4	140
06009	34.4	.6	3.1	9.4	25.0	8.8	1.3	.0	1.3	.6	84.4	15.6	160
12015	42.1	.0	.0	6.6	18.4	10.5	2.6	.0	.7	.0	80.9	19.1	152
18021	38.7	.6	.0	10.4	17.2	9.2	1.8	.0	.6	.0	78.5	21.5	163
TOT	217	4	6	63	121	65	14	2	8	3	503	112	615
PCT	35.3	.7	1.0	10.2	19.7	10.6	2.3	.3	1.3	.5	81.8	18.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	31.9	3.4	6.3	14.5	16.9	27.1	207
06009	35.4	4.9	5.3	16.0	18.4	19.9	206
12015	36.3	4.7	5.2	13.7	19.3	20.8	212
18021	40.3	4.3	5.1	10.4	16.1	20.9	211
TOT	301	36	52	114	148	185	836
PCT	36.0	4.3	6.2	13.6	17.7	22.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	25.4	35.5	59.4	25.4	15.2	138
06009	36.0	40.7	64.7	21.3	14.0	150
12015	44.0	46.1	62.4	21.3	16.3	141
18021	40.1	43.9	65.6	19.3	19.1	157
TOT	214	244	370	121	95	586
PCT	36.5	41.6	63.1	20.6	16.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
50/54	.0	.0	.7	.7	.0	1.4	.7	1.4	7	5.0
45/49	.0	.0	.0	.0	.7	.7	9.3	35.7	65	46.4
40/44	.0	.0	.0	.0	.0	.0	3.6	39.3	60	42.9
35/39	.0	.0	.0	.0	.0	.0	.0	3.6	5	3.6
30/34	.0	.0	.0	.0	.0	.0	.0	1.4	2	1.4
TOT	0	0	1	1	1	4	19	114	140	100.0
PCT	.0	.0	.7	.7	.7	2.9	13.6	81.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
50/54	.0	.7	.0	.0	.7	.0	2.1	.7	.0	.7
45/49	10.2	2.0	1.1	1.6	3.4	5.0	3.0	17.3	.0	2.9
40/44	7.5	.0	.7	3.4	15.2	2.1	6.1	7.1	.0	.7
35/39	2.3	.0	.0	.0	.0	.0	.5	.7	.0	.0
30/34	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0
TOT	20.7	2.7	2.5	5.7	19.3	7.1	11.8	25.9	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	69	54	43	38	34	34	44.3	208
06009	70	62	54	43	38	28	27	43.5	220
12015	68	52	48	41	34	30	27	41.0	242
18021	69	52	47	41	34	32	27	40.7	219
TOT	70	62	52	42	34	32	27	42.3	889

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.7	.0	.0	5.4	18.9	73.0	93	37	37
06009	.0	2.8	.0	.0	2.8	19.4	75.0	93	36	36
12015	.0	.0	.0	.0	2.9	2.9	94.1	96	34	34
18021	.0	.0	2.9	.0	11.4	85.7	94	35	35	35
TOT	0	2	1	4	19	116	94	142		142

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0021 UKHOTS'K SEA SE
52.2N 159.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	3	.2	.4
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.4	4	.0	.8
20/22	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.0	.2	5	.6	.4
17/19	.0	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.2	4	.0	.8
14/16	.0	.0	.0	.0	.0	.0	.6	.0	.2	.0	.0	.0	4	.0	.8
11/13	.0	.0	.0	.0	.0	.2	1.1	.9	.2	.0	.0	.0	13	.2	2.3
9/10	.0	.0	.0	.0	.6	1.1	.9	.2	.0	.0	.0	.0	15	.8	2.1
7/8	.0	.0	.0	.0	.0	1.1	.8	.2	.4	.0	.0	.0	13	.6	1.7
6	.0	.0	.0	.0	.2	.0	.6	.0	.0	.0	.0	.0	4	.6	.2
5	.0	.0	.0	.0	.2	4.5	1.5	.2	.0	.0	.0	.0	34	3.4	3.0
4	.0	.0	.2	.6	2.5	5.9	.8	.0	.0	.0	.0	.0	52	3.2	6.6
3	.0	.0	.0	.4	1.1	2.3	.8	.0	.0	.0	.0	.0	24	1.5	3.0
2	.0	.0	.6	2.7	6.4	6.6	.4	.0	.0	.0	.0	.0	88	6.3	10.4
1	.0	.0	.4	.2	4.0	1.1	.2	.0	.0	.0	.0	.0	31	1.9	4.0
0	.0	.6	4.0	5.1	7.8	7.2	.6	.0	.0	.0	.0	.0	133	12.5	12.7
-1	.0	.0	.0	.6	2.5	.6	.2	.0	.0	.0	.0	.0	20	1.7	2.1
-2	.0	.4	.8	1.7	4.2	.9	.0	.0	.0	.0	.0	.0	42	3.8	4.2
-3	.0	.0	.4	.6	.9	.0	.0	.0	.0	.0	.0	.0	10	1.1	.8
-4	.0	.0	.4	1.3	.8	.0	.0	.0	.0	.0	.0	.0	13	1.7	.8
-5	.0	.0	.2	.4	.8	.0	.0	.0	.0	.0	.0	.0	7	.9	.4
-7/-8	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	5	.4	.6
-9/-10	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.4	.2
-11/-13	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.2	.0
TOTAL	3	5	38	75	168	167	46	9	7	2	3	5	528	223	305
PCT	.6	.9	7.2	14.2	31.8	31.6	8.7	1.7	1.3	.4	.6	.9	100.0	42.2	57.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	3.8	.4	.0	.0	.0	5.0	.6	.8	.0	.0	.0	.0	.0	.0	1.4
1-2	.9	4.4	3.0	.0	.0	.0	8.3	.0	.8	1.8	.0	.0	.0	.0	.0	2.6
3-4	.0	.5	.8	.5	.0	.0	1.8	.0	.0	.5	.0	.0	.0	.0	.0	.5
5-6	.0	.4	1.7	.0	.0	.0	2.0	.0	.1	1.2	.0	.0	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	9.0	5.8	.5	.0	.0	17.1	.6	1.8	3.4	.5	.0	.0	.0	.0	6.3

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0	.8	.0	.9	.0	.0	.0	.0	.0	.0	.9
1-2	.0	.8	.4	.0	.0	.0	1.2	.0	.9	.9	.0	.0	.0	.0	.0	1.9
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.0	2.8	.0	.0	.0	.0	.0	2.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.3	.0	.0	.0	3.0	.0	1.9	5.0	.5	.0	.0	.0	.0	7.3

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0021 DKHOTS SEA SE
92.2N 153.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	1.9	.5	.0	.0	.0	3.3	.9	2.4	.0	.0	.0	.0	3.3
1-2	.0	1.2	5.7	.0	.0	.0	6.9	.0	1.2	1.4	.0	.0	.0	2.6
3-4	.0	.4	8.1	.5	.0	.0	8.9	.0	.6	1.9	.0	.0	.0	2.5
5-6	.0	.0	3.0	1.4	.0	.0	4.4	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.4	17.5	1.9	.0	.0	23.8	.9	4.1	5.5	.5	.0	.0	11.0

HGT	M						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	5.3	3.0	.0	.0	.0	8.3
1-2	.0	2.4	.8	.0	.0	.0	3.2	.0	5.3	2.6	.0	.0	.0	7.9
3-4	.0	.4	.5	.0	.0	.0	.8	.0	.1	1.1	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	1.3	.0	.0	.0	6.5	.0	11.3	7.1	.0	.0	.0	18.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	18.0	3.8	.0	.0	.0	31.3	
1-2	1.4	17.1	16.6	.0	.0	.0	35.1	
3-4	.0	1.9	16.1	.9	.0	.0	19.0	
5-6	.0	.9	8.1	1.9	.0	.0	10.9	
7	.0	.0	.9	.0	.0	.0	.9	
8-9	.0	.0	.9	.9	.0	.0	1.9	
10-11	.0	.0	.5	.0	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.5	.0	.0	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.9	38.4	46.9	3.8	.0	.0	100.0	211

PERIOD: (OVER-ALL) 1963-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.2	23.4	13.6	5.2	1.7	.0	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	3
6-7	.0	3.8	6.3	3.8	.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
8-9	.0	.0	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
10-11	.0	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
12-13	.0	.0	1.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDEX	6.6	4.3	5.2	3.8	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	2
TOTAL	91	94	79	41	9	6	3	0	0	2	1	0	0	0	0	0	0	0	0	286	3
PCT	17.8	32.9	27.6	14.3	3.1	2.1	1.0	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1908-1974

JULY

AREA 0021 OKHOTSK SEA SE
52.4N 159.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.3	.0	1.2	.0	.0	.0	.0	3.5	.8	.0	29.8	1.9	.0	.0	62.9
NE	11.2	1.0	7.8	.0	.0	.0	.0	17.1	1.0	.0	27.6	.0	.2	.0	54.1
E	15.3	.8	9.6	.0	.0	.0	.0	25.8	.6	.0	20.8	.6	.6	.0	51.6
SE	16.7	.6	11.2	.0	.0	.0	.0	27.1	2.0	.0	23.9	1.5	.6	.0	44.8
S	9.9	.0	10.3	.0	.0	.0	.0	19.6	1.5	.0	32.7	2.2	.0	.0	44.0
SW	2.1	.0	3.6	.0	.0	.0	.0	5.7	.9	.0	45.7	.9	.0	.0	46.7
W	1.0	.0	3.1	.0	.0	.0	.0	4.1	1.9	.0	41.8	3.1	.0	.0	49.2
NW	.8	.0	1.8	.0	.0	.0	.0	2.6	1.6	.0	33.3	1.8	.0	.0	60.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	.0	3.7	.0	.0	.0	.0	5.5	.9	.0	45.9	1.8	.0	.0	45.9
TOT PCT	6.5	.2	5.8	.0	.0	.0	.0	12.0	1.3	.0	33.7	1.7	.1	.0	51.1
TOT OBS:	1533														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.9	.2	4.4	.0	.0	.0	.0	8.9	1.6	.0	30.9	3.0	.2	.0	55.3
0600	7.3	.0	4.1	.0	.0	.0	.0	11.2	.5	.0	31.3	1.7	.0	.0	55.3
1200	7.6	.3	7.1	.0	.0	.0	.0	14.7	1.8	.0	35.4	1.0	.3	.0	46.8
1800	5.6	.3	7.8	.0	.0	.0	.0	13.1	1.3	.0	39.1	.9	.0	.0	45.6
TOT PCT	6.4	.2	5.7	.0	.0	.0	.0	11.8	1.3	.0	33.8	1.7	.1	.0	51.2
TOT OBS:	1554														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.6	7.3	3.9	.1	.0	.0		12.8	8.5	16.4	11.7	15.7	13.4	9.9	5.4	14.5	11.3	
NE	.9	4.3	1.8	.2	.0	.0		7.2	9.0	9.0	7.4	6.2	5.3	7.1	7.0	7.6	7.4	
E	1.6	4.5	1.9	.2	.0	.0		8.1	8.5	7.4	8.9	6.9	7.1	9.6	9.3	10.0	3.0	
SE	.9	5.5	3.6	1.1	.1	.0		11.2	11.6	14.3	9.1	12.1	8.1	11.1	10.9	8.5	15.8	
S	1.7	9.4	5.9	.6	.1	.0		17.6	10.0	18.8	14.2	17.1	21.3	16.5	20.3	17.8	14.6	
SW	1.3	6.6	4.3	.1	.0	.0		12.2	9.3	9.9	17.4	9.7	12.6	12.3	14.1	13.7	10.1	
W	2.1	6.8	2.1	.1	.0	.0		11.1	7.6	8.8	14.2	11.2	12.2	11.6	10.1	9.4	9.5	
NW	2.1	7.6	3.0	.8	.0	.0		12.6	7.7	10.7	14.8	12.4	13.8	11.1	13.6	10.0	23.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.0							7.0	.0	4.6	2.3	6.5	6.3	10.8	9.3	8.5	4.8	
TOT OBS	276	745	180	35	2	0	1438		8.4	239	132	245	127	259	129	223	84	
TOT PCT	19.2	51.8	26.4	2.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	5.8	6.1	.9	.0	.0		12.8	8.5	14.8	14.9	8.4	13.6
NE	3.3	2.8	1.2	.0	.0		7.2	9.0	8.4	5.9	7.1	7.6
E	3.8	3.7	.6	.1	.0		8.1	8.5	8.0	7.0	9.3	8.1
SE	3.3	5.4	2.0	.5	.0		11.2	11.6	12.5	10.8	11.0	10.5
S	4.7	10.8	1.9	.2	.0		17.6	10.0	17.2	18.5	17.8	16.9
SW	3.9	7.2	1.1	.0	.0		12.2	9.3	12.6	10.7	12.9	12.7
W	5.7	4.8	.6	.1	.0		11.1	7.6	10.7	12.8	11.1	9.4
NW	5.9	6.4	.3	.8	.0		12.6	7.7	12.1	12.9	11.9	13.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.0						7.0	.0	3.8	6.5	10.3	7.5
TOT OBS	623	678	122	15	0	1438		8.4	271	372	388	307
TOT PCT	43.3	47.1	8.5	1.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1908-1974

JULY

AREA 0021 OKHOTSK SEA SE
52.4N 159.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	3.8	12.7	55.5	25.1	2.7	.3	.0	.0	8.7	100.0	371
0600	6.5	12.6	50.3	26.9	3.5	.3	.0	.0	8.7	100.0	372
1200	10.3	15.2	47.9	24.7	1.8	.0	.0	.0	7.6	100.0	388
1800	7.5	7.2	54.1	29.6	1.6	.0	.0	.0	8.8	100.0	307
TOT	101	175	745	380	35	2	.0	.0	8.4		1438
PCT	7.0	12.2	51.8	26.4	2.4	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	2.5	.3	2.3	7.9		6.2
NE	.1	.5	.8	5.3		7.2
E	.5	.3	.6	6.4		7.2
SE	.3	.2	.6	9.6		7.6
S	.9	.5	2.2	15.5		7.3
SW	1.7	.4	1.0	8.7		6.7
W	1.5	.2	.8	8.3		6.7
NW	2.5	.9	1.8	7.0		5.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.5	.8	6.1		7.4
TOT OBS	139	53	153	1018	1363	6.9
TOT PCT	10.2	3.9	11.2	74.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT; NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.5	.0	.1	.5	2.5	2.3	.3	.1	.0	.0	3.8	
NE	2.0	.1	.1	.9	1.0	1.4	.3	.2	.0	.1	.7	
E	2.0	.0	.2	.7	2.0	1.6	.4	.1	.1	.0	1.1	
SE	3.5	.0	.2	.9	2.6	2.1	.2	.3	.1	.1	.7	
S	7.6	.0	.0	1.9	2.9	2.1	1.2	.1	.3	.1	2.0	
SW	4.9	.0	.1	.6	1.5	1.4	.6	.2	.3	.0	2.3	
W	4.4	.0	.1	.4	1.4	1.5	.2	.2	.4	.0	2.1	
NW	3.1	.0	.1	.7	1.8	1.7	.2	.3	.1	.0	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1	.0	.1	.2	1.7	1.2	.4	.0	.0	.1	.9	
TOT OBS	464	1	13	92	249	209	32	18	5	242	1363	
TOT PCT	34.0	.1	1.0	6.7	18.3	15.3	3.8	1.3	1.3	.4	17.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	1.6	1.7	1.7	1.8	1.8	1.9	1.9
= OR >5000	2.1	2.6	3.1	3.1	3.1	3.1	3.2	3.2
= OR >3500	4.0	6.0	6.8	6.9	6.9	6.9	7.0	7.0
= OR >2000	10.3	18.3	21.3	21.4	21.6	21.6	21.8	21.8
= OR >1000	12.4	29.2	36.3	37.9	38.4	38.9	39.4	39.4
= OR >600	13.6	32.1	41.2	43.8	44.7	45.4	46.1	46.1
= OR >300	13.6	32.3	41.7	44.6	45.4	46.3	47.0	47.0
= OR >150	13.6	32.4	41.8	44.7	45.5	46.4	47.1	47.1
= OR >0	13.9	33.0	43.7	48.6	52.0	62.1	80.8	82.0
TOTAL	186	442	586	652	697	833	1083	1099

TOTAL NUMBER OF OBS: 1341

PCT FREQ NM <5/8: 18.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.9	5.7	3.2	2.0	2.1	1.8	3.0	5.9	38.8	32.8	1418

JULY

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1908-1974AREA 0021 OKHOTSK SEA SE
52.4N 153.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.1	.2	.4	.6	.1	.1	.0	.0	.0	1.8	
	NO PCP	3.4	1.7	1.1	2.2	4.8	4.9	4.2	3.7	.0	2.7	28.7	
	TOT %	3.6	1.8	1.3	2.6	5.4	5.1	4.3	3.7	.0	2.7	30.6	
1/2<1	PCP	.0	.2	.3	.6	.7	.2	.1	.0	.0	.0	2.0	
	NO PCP	.2	.0	.2	.0	.5	.2	.2	.1	.0	.2	1.6	
	TOT %	.2	.2	.4	.6	1.2	.3	.3	.1	.0	.2	3.7	
1<2	PCP	.1	.3	.4	.9	.7	.1	.2	.0	.0	.0	2.8	
	NO PCP	.0	.1	.3	.3	.5	.2	.3	.1	.0	.4	2.4	
	TOT %	.1	.4	.7	1.2	1.2	.4	.5	.1	.0	.4	5.1	
2<5	PCP	.1	.2	.7	.7	.9	.1	.0	.2	.0	.0	3.0	
	NO PCP	1.1	.7	.7	1.6	2.4	1.0	.9	.5	.0	.5	9.4	
	TOT %	1.2	1.0	1.5	2.3	3.3	1.0	1.0	.6	.0	.5	12.3	
5<10	PCP	.1	.3	.2	.3	.7	.2	.0	.1	.0	.3	2.2	
	NO PCP	3.6	1.2	2.0	1.7	3.8	2.5	2.5	2.5	.0	1.8	21.5	
	TOT %	3.7	1.4	2.2	2.0	4.5	2.7	2.5	2.6	.0	2.1	23.7	
10+	PCP	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	.3	
	NO PCP	4.7	1.9	1.6	2.0	2.8	2.5	2.6	3.0	.0	1.2	24.3	
	TOT %	4.7	1.9	1.7	2.0	2.8	2.5	2.6	3.1	.0	1.3	24.6	
TOT OBS													1525
TOT PCT													
		13.5	6.7	7.8	10.8	18.4	12.0	11.2	12.3	.0	7.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	.3	.7	.4	.5	.5	1.0	.8	.0	3.0	7.8	
	4-10	2.4	1.5	.7	1.0	3.0	2.8	2.8	2.7	.0	.0	17.0	
	11-21	1.1	.3	.1	.9	1.7	2.1	.9	.7	.0	.0	7.8	
	22+	.0	.0	.0	.2	.1	.0	.1	.0	.0	.0	.3	
	TOT %	4.2	2.0	1.5	2.5	5.3	5.3	4.8	4.2	.0	3.0	32.9	
1/2<1	0-3	.0	.1	.1	.1	.0	.1	.0	.2	.0	.1	.6	
	4-10	.1	.0	.1	.1	.5	.2	.2	.0	.0	.0	1.2	
	11-21	.1	.2	.2	.2	.5	.1	.0	.0	.0	.0	1.3	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.3	.4	.6	1.2	.4	.2	.2	.0	.1	3.4	
1<2	0-3	.0	.0	.1	.0	.1	.1	.1	.1	.0	.3	.8	
	4-10	.0	.2	.3	.9	.7	.0	.2	.1	.0	.0	2.4	
	11-21	.1	.2	.4	.2	.5	.0	.1	.0	.0	.0	1.4	
	22+	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.2	.5	.9	1.2	1.3	.2	.3	.2	.0	.3	5.1	
2<5	0-3	.1	.2	.1	.2	.4	.2	.3	.2	.0	.4	2.1	
	4-10	1.0	.6	1.1	1.0	1.6	.4	.6	.4	.0	.0	6.8	
	11-21	.2	.2	.4	.9	1.2	.4	.0	.2	.0	.0	3.5	
	22+	.0	.1	.0	.4	.2	.0	.0	.0	.0	.0	.7	
	TOT %	1.3	1.1	1.6	2.6	3.3	1.0	.9	.7	.0	.4	13.1	
5<10	0-3	.6	.1	.3	.0	.2	.2	.4	.4	.0	2.0	4.2	
	4-10	2.0	.9	1.4	1.2	2.2	1.4	1.4	1.5	.0	.0	12.0	
	11-21	1.0	.6	.4	.7	1.5	1.0	.3	.3	.0	.0	5.7	
	22+	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	3.6	1.5	2.0	2.1	4.0	2.6	2.1	2.3	.0	2.0	22.3	
10+	0-3	.4	.2	.4	.2	.3	.2	.5	.2	.0	1.1	3.4	
	4-10	2.1	1.1	.7	1.1	1.5	1.7	1.4	2.8	.0	.0	12.4	
	11-21	1.5	.5	.3	.6	.7	.8	.8	1.8	.0	.0	7.0	
	22+	.1	.0	.0	.1	.2	.0	.0	.0	.0	.0	.4	
	TOT %	4.0	1.8	1.5	1.9	2.7	2.7	2.7	4.9	.0	1.1	23.2	
TOT OBS													1345
TOT PCT													
		13.4	7.3	7.9	11.0	17.8	12.2	10.9	12.5	.0	6.9	100.0	

JULY

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1908-1974AREA 0021 OKHOTSK SEA SE
52.4N 133.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	26.4	.0	.8	8.1	21.7	17.5	2.6	2.6	1.6	.5	81.7	18.3	383
06009	29.2	.3	.8	5.9	19.2	17.4	4.6	1.3	1.8	.0	80.3	19.7	391
12015	43.8	.0	.6	5.2	13.4	13.7	3.0	.0	1.5	.6	81.8	18.2	329
18021	39.1	.0	1.8	7.7	16.9	11.3	4.9	1.1	.7	.4	83.8	16.2	284
TOT	470	1	13	93	250	212	52	18	20	5	1134	253	1387
PCT	33.9	.1	.9	6.7	18.0	15.3	3.7	1.3	1.4	.4	81.8	18.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	27.4	3.0	4.6	12.1	25.8	27.2	438
06009	28.1	4.0	5.2	12.9	24.5	25.2	420
12015	35.9	3.9	6.1	14.9	18.3	21.0	410
18021	38.0	3.3	5.2	8.5	23.1	21.9	329
TOT	510	57	84	196	367	383	1597
PCT	31.9	3.6	5.3	12.3	23.0	24.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	26.7	29.9	48.7	34.2	17.1	374
06009	30.6	34.1	51.6	31.2	17.2	372
12015	45.1	48.3	62.4	21.9	15.7	319
18021	39.9	44.2	57.2	27.9	14.9	276
TOT	468	515	731	391	219	1341
PCT	34.9	38.4	54.5	29.2	16.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
55/59	.0	.0	.0	.0	.0	.7	1.3	.4	13	2.4
50/54	.0	.0	.0	.0	.2	1.1	3.1	18.2	124	22.5
45/49	.0	.0	.0	.0	.2	.5	5.3	46.5	289	52.5
40/44	.0	.0	.0	.0	.2	1.3	20.2	120	21.8	
35/39	.0	.0	.0	.0	.0	.0	.5	.5	3	.5
TOTAL	0	0	1	0	2	14	61	472	550	100.0
PCT	.0	.0	.2	.0	.4	2.5	11.1	85.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.3	.2	.2	.0	.2	.2	.4	.2	.0	.7
2.7	1.0	1.5	3.8	3.2	2.4	2.8	4.0	.0	1.3
8.1	2.4	3.2	5.9	8.4	5.0	6.6	10.3	.0	2.7
3.4	.9	2.9	1.5	3.0	3.2	3.4	1.3	.0	2.2
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
14.6	4.5	7.8	11.2	15.3	10.8	13.2	15.8	.0	6.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	64	57	48	42	39	36	48.9	442
06009	63	59	55	49	42	40	39	49.0	436
12015	75	58	54	47	41	37	32	47.2	451
18021	75	59	52	46	41	37	36	46.7	341
TOT	75	59	55	48	41	39	32	48.0	1670

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.6	2.8	12.4	84.2	94	177
06009	.0	.0	.0	4.4	15.0	80.6	94	160
12015	.0	.7	.7	.7	4.9	93.0	96	143
18021	.0	.0	.0	1.4	11.1	87.5	94	72
TOT	0	1	2	14	61	474	94	532

JULY

PERIOD: (PRIMARY) 195A-1974
(OVER-ALL) 1908-1974

TABLE 17

AREA 0021 OKHOTSK SEA SE
52.4N 159.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	3	.1	.2
14/16	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.1	5	.1	.3
11/13	.0	.0	.0	.1	.2	.3	.3	.2	.2	.0	.0	14	.8	.4
9/10	.0	.0	.0	.2	.3	.3	.4	.1	.0	.0	.0	14	.2	1.0
7/8	.0	.0	.0	.1	.7	1.7	.7	.1	.0	.0	.0	38	.9	2.4
6	.0	.0	.0	.1	.5	1.0	.1	.0	.0	.0	.0	20	.3	1.4
5	.0	.0	.0	1.6	1.8	1.6	.3	.3	.0	.0	.0	67	1.5	4.3
4	.0	.0	.3	1.6	3.6	1.2	.3	.0	.1	.0	.0	80	2.2	4.7
3	.0	.0	.2	1.8	2.5	.4	.0	.0	.0	.0	.0	57	1.0	3.9
2	.0	.0	.9	6.6	5.3	1.0	.0	.0	.0	.0	.0	160	4.4	9.4
1	.0	.1	1.9	5.1	4.4	.3	.0	.0	.0	.0	.0	136	3.0	8.7
0	.1	.2	2.6	12.0	6.2	.5	.0	.0	.0	.0	.0	250	8.1	13.5
-1	.0	.3	1.6	3.5	3.4	.6	.0	.0	.0	.0	.0	109	3.5	5.9
-2	.0	.7	1.6	5.6	1.0	.1	.0	.0	.0	.0	.0	104	2.9	5.1
-3	.0	.3	.9	1.1	.6	.0	.0	.0	.0	.0	.0	34	1.2	1.7
-4	.1	.3	.9	.9	.5	.0	.0	.0	.0	.0	.0	32	1.6	1.2
-5	.0	.0	.7	.5	.1	.0	.0	.0	.0	.0	.0	15	.6	.7
-6	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	6	.3	.2
-7/-8	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	4	.1	.3
-9/-10	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	4	.1	.3
-11/-13	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	3	.1	.2
TOTAL	2		140	477	365	106	28	9	3	2	4	1159	394	765
PCT	.2	2.0	12.1	41.2	31.5	9.1	2.4	.8	.3	.2	.3	100.0	34.0	66.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	3.1	.3	.0	.0	.0	3.9	.0	2.6	.0	.0	.0	.0	2.6
1-2	.2	4.5	2.4	.0	.0	.0	7.1	.6	.8	.6	.0	.0	.0	2.0
3-6	.0	.6	2.8	.3	.0	.0	3.6	.0	.3	1.4	.0	.0	.0	1.7
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	.1	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.1	6.0	.3	.0	.0	15.2	.6	3.6	2.8	.1	.0	.0	7.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.0	.0	.0	.0	.0	1.3	.3	1.5	.0	.0	.0	.0	1.8
1-2	.5	1.5	1.4	.0	.0	.0	3.4	.0	1.7	.4	.0	.0	.0	2.1
3-6	.0	.6	.5	.0	.0	.0	1.0	.0	.3	2.0	.0	.0	.0	2.3
5-6	.0	.3	.2	.2	.0	.0	.7	.0	.0	1.5	.3	.1	.0	1.9
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.5	.3	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.3	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.4	2.3	.2	.0	.0	6.6	.3	3.7	6.0	1.3	.1	.0	11.4

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0021 OKHOTSK SEA SE
52.4N 153.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.6	.0	.0	.0	2.9	.0	1.9	.0	.0	.0	.0	1.9
1-2	.3	2.4	1.8	.0	.0	.0	4.5	.3	1.2	1.1	.0	.0	.0	2.6
3-4	.0	.0	2.0	.2	.0	.0	2.2	.0	.0	2.1	.3	.0	.0	3.0
5-6	.0	.0	1.6	.5	.2	.0	2.3	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	6.9	.9	.2	.0	13.1	.3	3.6	5.4	.3	.0	.0	9.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	.7	.0	.0	.0	.0	1.5	.6	3.4	.6	.0	.0	.0	4.5	
1-2	.3	3.4	.8	.0	.0	.0	4.5	.3	5.0	2.4	.0	.0	.0	7.7	
3-4	.0	1.1	1.4	.0	.0	.0	2.5	.0	.0	1.8	.0	.0	.0	1.8	
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	5.2	4.1	.0	.0	.0	10.5	.9	8.4	5.0	.0	.0	.0	14.3	87.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.8	16.5	1.4	.0	.0	.0	32.7	
1-2	2.5	20.4	10.9	.0	.0	.0	33.8	
3-4	.0	3.4	14.0	.8	.0	.0	18.2	
5-6	.0	.3	6.4	1.1	.3	.0	8.1	
7	.0	.0	3.9	.3	.0	.0	4.2	
8-9	.0	.3	1.4	.3	.0	.0	2.0	
10-11	.0	.0	.6	.3	.0	.0	.8	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.3	40.8	38.5	3.1	.3	.0	100.0	358

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.6	24.5	14.2	5.7	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	355	3
6-7	.1	2.7	6.6	9.1	4.3	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	5
8-9	.0	.4	.1	.7	1.2	.7	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
10-11	.0	.6	.1	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
12-13	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDEX	7.5	2.5	3.0	1.2	.6	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	2
TOTAL	95	206	164	121	53	16	8	2	4	0	1	0	0	0	0	0	0	0	0	670	3
PCT	14.2	30.7	24.5	18.1	7.9	2.4	1.2	.3	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AUGUST

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	31.3	.0	1.1	.0	62.6
NE	12.6	.0	7.4	.0	.0	.0	.0	20.0	2.8	.0	14.8	3.3	1.7	.0	57.4
E	21.6	.0	12.2	.0	.0	.0	.0	32.2	3.3	.0	18.4	.0	.0	.0	45.9
SE	15.5	.0	13.5	.0	.0	.0	.0	29.0	.9	.0	36.3	.0	.0	1.1	32.3
S	14.2	.8	9.1	.0	.0	.0	.0	24.0	1.1	.0	38.1	.8	.0	.0	36.0
SW	4.6	.0	3.1	.0	.0	.0	.0	7.7	1.9	.0	35.6	.0	.0	.0	54.7
W	4.4	.0	9.1	.0	.0	.0	.0	13.3	.0	.0	36.0	.0	.0	.0	50.3
NW	7.4	.0	1.2	.0	.0	.0	.0	8.6	.0	.0	40.8	.9	.0	.0	49.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.8	.0	.0	.0	.0	3.8	1.9	.0	47.2	1.9	.0	.0	45.3
TOT PCT	9.0	.1	6.9	.0	.0	.0	.0	16.0	1.2	.0	34.2	.7	.3	.1	47.6
TOT OBS:	763														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	9.1	.0	3.9	.0	.0	.0	.0	13.0	.4	.0	34.3	.4	.0	.0	51.7
06009	9.0	.5	3.7	.0	.0	.0	.0	12.2	.5	.0	34.9	1.1	1.1	.5	48.7
12015	8.9	.0	10.5	.0	.0	.0	.0	19.5	1.1	.0	30.5	1.1	.0	.0	47.9
18021	8.6	.0	10.4	.0	.0	.0	.0	18.4	3.1	.0	36.8	.0	.0	.0	41.7
TOT PCT	8.9	.1	6.9	.0	.0	.0	.0	15.8	1.7	.0	34.1	.6	.3	.1	47.9
TOT OBS:	772														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.6	6.4	4.7	.4	.0	.0		13.1	9.3		16.0	15.0	11.9	16.7	7.0	12.3	11.8	17.9
NE	.5	5.1	1.6	.3	.0	.0		7.5	8.4		8.8	7.3	7.8	6.2	11.8	5.7	5.6	2.0
E	.5	3.6	1.8	.6	.0	.0		6.6	10.6		4.3	9.2	5.7	5.4	6.8	9.2	8.1	1.0
SE	.5	5.0	4.2	1.5	.0	.0		11.1	12.4		13.5	12.7	9.9	12.3	10.5	12.3	10.2	6.1
S	2.5	7.1	7.2	1.0	.0	.0		17.8	10.6		16.6	20.0	18.3	18.1	17.5	16.7	17.8	18.4
SW	2.0	6.9	4.3	1.1	.0	.0		14.2	9.6		14.6	11.2	20.2	12.7	12.9	13.6	13.0	12.8
W	.7	4.7	3.3	.4	.1	.0		9.2	10.3		4.4	5.4	7.3	9.8	8.6	11.0	9.5	18.9
NW	1.6	6.8	9.2	.1	.1	.0		13.7	9.9		10.4	13.1	14.2	11.6	16.9	14.0	13.9	16.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7							6.7	.0		5.5	6.2	4.6	7.2	7.9	5.3	10.2	6.1
TOT OBS	117	318	224	37	1	0	699		9.3		128	65	109	69	114	57	108	49
TOT PCT	16.7	45.5	32.3	5.3	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00				06	12	18	21	
N	4.4	7.2	1.4	.0	.0		13.1	9.5	15.7	13.8	8.8	13.7		
NE	3.4	3.5	.6	.0	.0		7.5	8.4	8.3	7.2	9.8	4.5		
E	2.3	3.1	1.1	.1	.0		6.6	10.6	7.3	5.6	7.6	5.9		
SE	3.2	4.7	2.9	.3	.0		11.1	12.4	13.2	10.8	11.1	8.9		
S	6.9	7.2	3.5	.2	.0		17.8	10.6	17.7	18.3	17.3	18.0		
SW	5.9	6.5	1.8	.1	.0		14.2	9.6	13.5	17.3	13.2	12.9		
W	3.0	4.7	1.5	.1	.0		9.2	10.5	7.4	8.3	9.4	12.4		
NW	3.4	9.2	1.1	.1	.0		13.7	9.9	11.3	13.2	15.9	14.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	6.7						6.7	.0	5.7	5.6	7.0	8.9		
TOT OBS	274	322	97	6	0	699		9.5	193	178	171	137		
TOT PCT	39.2	46.1	13.9	.9	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1979-1974

AUGUST

AREA 0021 OKHOTSK SEA SE
52.3N 132.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.7	8.8	50.3	29.5	5.7	.0	.0	9.7	100.0	193
0600	5.6	9.0	47.2	33.1	5.1	.0	.0	9.6	100.0	178
1200	7.0	13.5	42.7	32.2	4.1	.6	.0	9.1	100.0	171
1800	8.9	8.9	40.8	35.0	6.4	.0	.0	9.7	100.0	137
TOT	47	70	318	226	37	1	0	9.5		699
PCT	6.7	10.0	45.5	32.3	5.3	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.6	1.9	7.1		6.7
NE	1.0	.7	1.0	4.7		6.4
E	.3	.2	1.0	7.2		7.4
SE	.0	.0	1.3	10.3		7.7
S	.1	.3	1.4	16.3		7.4
SW	.3	.2	2.8	9.2		7.3
W	.4	.3	1.4	7.0		7.2
NW	.6	.9	1.3	10.9		7.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	.2	.3	6.3		6.8
TOT OBS	29	20	74	469	592	7.3
TOT PCT	4.9	3.4	12.5	79.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.2	.0	.3	1.6	1.7	2.3	.2	.3	.2	.0	1.9	
NE	1.4	.0	.2	.2	1.0	1.3	.4	.8	.0	.0	2.2	
E	1.8	.0	.1	2.3	1.4	1.3	.8	.4	.0	.0	.6	
SE	4.9	.2	.4	1.4	2.0	1.3	.7	.3	.2	.0	.3	
S	8.4	.1	.3	1.3	3.5	2.5	.5	.3	.3	.1	.8	
SW	4.7	.0	.0	.7	1.9	1.9	.4	.5	.7	.0	1.5	
W	2.7	.0	.3	1.4	1.2	1.7	.3	.0	.3	.0	1.1	
NW	4.1	.0	.2	1.0	1.4	4.1	.9	.3	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5	.0	.2	.3	.7	1.2	.7	.0	.0	.0	1.4	
TOT OBS	200	2	12	60	87	104	29	18	10	1	69	592
TOT PCT	33.8	.3	2.0	10.1	14.7	17.6	4.9	3.0	1.7	.2	11.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>5000	3.3	4.3	4.9	5.1	5.1	5.1	5.1	5.1
>3500	6.1	8.9	9.9	10.1	10.1	10.1	10.1	10.1
>2000	15.5	23.5	26.7	27.2	27.4	27.4	27.7	27.7
>1000	17.9	31.4	38.9	40.2	40.9	41.6	42.2	42.2
>800	19.2	35.4	46.0	48.6	50.2	51.2	51.9	51.9
>300	19.3	35.7	46.9	49.7	51.7	53.0	53.7	53.7
>150	19.3	35.7	47.0	50.0	52.1	53.3	54.0	54.0
>0	19.3	36.6	49.1	55.1	58.7	66.7	86.8	88.2
TOTAL	111	210	282	316	337	383	498	506

TOTAL NUMBER OF OBS: 574

PCT FREQ NH <5/8: 11.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.9	1.1	3.2	1.8	1.4	1.6	4.8	5.8	44.1	32.3	622

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AUGUST

AREA 0021 OKMOTSK SEA SE
92.3N 152.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.3	.8	.5	.6	.7	.0	.1	3.3	
	NO PCP	2.5	.8	1.2	3.8	5.6	4.0	2.0	4.9	.0	2.4	27.2	
	TOT %	2.5	.9	1.4	4.1	6.5	4.5	2.6	5.5	.0	2.5	30.5	
1/2<1	PCP	.0	.0	.4	.7	.6	.3	.0	.0	.0	.0	2.0	
	NO PCP	.3	.3	.3	.8	.2	.4	.3	.6	.0	.3	2.7	
	TOT %	.3	.3	.7	.7	.9	.7	.3	.6	.0	.3	4.7	
1<2	PCP	.0	.0	1.0	1.1	1.3	.1	.1	.0	.0	.0	3.7	
	NO PCP	.9	.2	.1	.0	.5	.1	.7	.0	.0	.7	3.2	
	TOT %	.9	.2	1.1	1.1	1.9	.2	.8	.0	.0	.7	6.9	
2<5	PCP	.3	.6	.9	.9	1.0	.0	.1	.2	.0	.1	4.1	
	NO PCP	.7	.5	.9	.7	2.1	.5	1.1	.8	.0	.7	8.0	
	TOT %	1.0	1.1	1.8	1.6	3.1	.6	1.2	1.0	.0	.8	12.1	
5<10	PCP	.2	.4	.1	.2	.5	.2	.3	.4	.0	.0	2.3	
	NO PCP	1.9	1.3	1.8	1.9	2.0	2.9	1.0	2.4	.0	1.3	16.5	
	TOT %	2.1	1.7	1.9	2.1	2.4	3.1	1.3	2.8	.0	1.3	18.8	
10+	PCP	.1	.3	.1	.1	.0	.0	.1	.0	.0	.0	.7	
	NO PCP	5.1	3.0	1.6	1.5	2.8	4.1	2.7	4.2	.0	1.5	26.4	
	TOT %	5.1	3.4	1.6	1.6	2.8	4.1	2.8	4.2	.0	1.5	27.0	
TOT OBS													
TOT PCT													
		11.9	7.7	8.5	11.2	17.4	13.1	9.1	14.1	.0	7.1	100.0	791

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	1.1	.1	.3	.5	1.4	1.0	.4	1.2	.0	2.6	8.7	
	4-10	2.2	.9	.7	2.2	2.1	2.1	1.2	3.3	.0		14.7	
	11-21	1.0	.3	.2	.7	1.9	1.4	1.0	1.9	.0		8.4	
	22+	.0	.0	.0	.1	.3	.9	.1	.0	.0		1.4	
	TOT %	4.3	1.3	1.2	3.5	5.7	5.4	2.6	6.3	.0	2.6	33.1	
1/2<1	0-3	.2	.0	.2	.0	.0	.0	.0	.2	.0	.2	.6	
	4-10	.2	.3	.3	.5	.2	.4	.5	.5	.0		2.8	
	11-21	.2	.0	.2	.4	.3	.2	.0	.0	.0		1.2	
	22+	.0	.0	.0	.3	.3	.0	.0	.0	.0		.6	
	TOT %	.5	.3	.7	1.2	.7	.5	.5	.6	.0	.2	5.3	
1<2	0-3	.2	.2	.0	.0	.4	.0	.0	.0	.0	.6	1.4	
	4-10	.9	.1	.3	.2	.3	.2	.5	.0	.0		2.5	
	11-21	.3	.0	.2	.8	.8	.1	.5	.0	.0		2.8	
	22+	.0	.0	.4	.3	.1	.0	.0	.0	.0		.8	
	TOT %	1.4	.3	1.0	1.3	1.6	.3	1.0	.0	.0	.6	7.4	
2<5	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.6	.9	
	4-10	.7	.6	.6	.2	1.4	.5	.5	.6	.0		5.1	
	11-21	.5	.5	.7	1.2	1.3	.2	.8	.5	.0		5.7	
	22+	.0	.0	.1	.1	.1	.1	.3	.1	.0		.8	
	TOT %	1.2	1.0	1.4	1.5	3.1	.9	1.6	1.2	.0	.6	12.5	
5<10	0-3	.0	.0	.0	.0	.1	.5	.0	.2	.0	1.1	1.9	
	4-10	.9	1.0	.6	.5	1.1	1.1	.3	.3	.0		5.7	
	11-21	.5	.3	.1	.7	1.0	.8	.4	1.4	.0		5.3	
	22+	.0	.2	.0	.4	.1	.2	.0	.0	.0		.8	
	TOT %	1.3	1.5	.7	1.5	2.3	2.5	.7	1.9	.0	1.1	13.6	
10+	0-3	.3	.3	.2	.0	.5	.3	.2	.3	.0	1.7	3.7	
	4-10	2.1	2.4	1.1	1.2	1.7	2.4	1.9	2.2	.0		14.9	
	11-21	1.6	.5	.4	.5	.9	1.4	.8	1.6	.0		8.7	
	22+	.4	.2	.0	.0	.0	.0	.2	.1	.0		.8	
	TOT %	5.3	3.4	1.6	1.7	3.1	4.0	3.1	4.1	.0	1.7	28.0	
TOT OBS													
TOT PCT													
		14.0	7.8	6.7	10.8	16.6	13.6	9.6	14.2	.0	6.8	100.0	646

AUGUST

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM $\geq 4/8$) AND
OCCURRENCE OF NM $< 5/8$ BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM $< 5/8$ ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	26.8	1.1	1.6	11.6	16.3	20.5	6.8	4.2	1.6	.5	91.1	8.9	190
06009	34.1	.0	.6	10.4	16.5	19.2	3.7	4.3	1.2	.0	86.0	14.0	164
12015	35.5	.0	4.0	8.9	11.3	16.1	4.0	.8	2.4	.0	83.1	16.9	124
18021	41.8	.0	2.5	8.2	13.9	17.2	4.9	1.6	1.6	.0	91.8	8.2	122
TOT	202	2	12	60	89	103	30	18	10	1	529	71	600
PCT	33.7	.3	2.0	10.0	14.8	17.5	5.0	3.0	1.7	.2	88.2	11.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	$< 1/2$	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
(GMT)							
00003	28.8	6.2	8.6	7.4	18.9	30.0	243
06009	39.8	2.5	5.9	14.7	16.2	25.0	204
12015	32.8	6.2	6.2	10.3	16.9	27.7	195
18021	33.1	5.9	7.1	18.3	18.3	17.2	169
TOT	263	42	57	99	143	207	611
PCT	32.4	5.2	7.0	12.2	17.6	25.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM $\geq 4/8$) BY HOUR

HR	< 150	< 600	< 1000	1000+ AND 5+	NM $< 5/8$ AND 5+	TOTAL OBS
(GMT)	< 5000	< 1	< 5			
00003	27.0	34.6	50.3	41.1	8.6	189
06009	36.4	39.6	59.7	27.9	12.3	154
12015	35.9	45.3	62.4	24.8	12.8	117
18021	41.5	45.8	65.3	27.1	7.6	118
TOT	197	232	235	180	59	574
PCT	34.3	40.4	58.4	31.4	10.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/69	.0	.0	.0	.0	.0	.6	.0	.0	1	.6
60/64	.0	.0	.0	.0	.0	.0	.6	.0	1	.6
55/59	.0	.0	.0	.0	.6	.0	4.5	6.5	18	11.6
50/54	.0	.0	.0	.0	.0	11.6	62.6	.0	115	74.2
45/49	.0	.0	.0	.0	.0	.6	11.0	.0	18	11.6
40/44	.0	.0	.0	.0	.0	.0	1.3	.0	2	1.3
TOTAL	.0	.0	.0	.0	1	1	26	127	155	100.0
PCT	.0	.0	.0	.0	.6	.6	16.8	81.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
1.8	.0	.6	1.3	2.6	1.3	1.1	1.0	.0	1.9
3.9	1.6	8.7	9.4	22.7	8.5	5.2	11.6	.0	2.6
2.1	.0	.6	2.6	.6	.6	.0	4.4	.0	.6
.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
7.7	1.6	10.6	13.2	26.0	11.1	6.3	16.9	.0	6.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	73	68	61	53	48	45	43	53.4	246
06009	73	72	63	54	48	46	45	54.0	214
12015	66	61	57	52	48	45	45	51.8	211
18021	75	68	57	52	46	43	42	51.5	181
TOT	75	68	60	52	46	45	42	52.7	852

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.0	1.8	.0	18.2	80.0	94	55
06009	.0	.0	.0	2.3	22.7	75.0	94	44
12015	.0	.0	.0	.0	8.6	91.4	96	35
18021	.0	.0	.0	.0	14.3	85.7	96	21
TOT	0	0	1	1	26	127	95	155

AUGUST

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.3	.2	4	.0	.6
11/13	.0	.0	.0	.0	.3	.2	.9	.0	6	.5	.5
9/10	.0	.0	.0	.0	.3	.3	.5	.0	7	.0	1.1
7/8	.0	.0	.0	.3	1.1	1.1	.0	.0	16	1.0	1.6
6	.0	.2	.2	.2	.8	.4	.0	.0	10	.5	1.1
5	.0	.0	.6	1.3	1.8	.6	.0	.0	27	1.5	2.9
4	.0	.0	1.0	7.1	2.4	.5	.0	.0	68	3.7	7.3
3	.0	.0	1.1	2.8	.3	.0	.0	.0	26	1.1	3.1
2	.0	.3	8.1	6.2	1.5	.0	.0	.0	99	5.7	10.4
1	.0	.2	4.2	4.7	.0	.0	.0	.0	56	2.1	7.0
0	.2	3.1	14.1	6.7	1.0	.0	.0	.0	154	7.6	17.6
-1	.0	.0	6.7	2.9	.0	.0	.0	.0	59	3.4	6.2
-2	.2	.8	3.9	1.1	.2	.0	.0	.0	38	1.6	4.5
-3	.2	.0	1.6	.2	.0	.0	.0	.0	12	.8	1.1
-4	.0	1.3	.3	.3	.2	.0	.0	.0	13	1.0	1.1
-5	.0	.5	.8	.3	.0	.0	.0	.0	10	.2	1.5
-7/-8	.0	.3	.5	.0	.0	.0	.0	.0	5	.2	.6
-9/-10	.0	.6	.2	.2	.0	.0	.0	.0	6	.6	.3
TOTAL	3		267		61	19	9		616	194	422
PCT	.5	45	211		19	1			100.0	31.5	68.5
		7.3	43.3	34.3	9.9	3.1	1.5	.2			

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	2.0	.4	.0	.0	.0		3.0	.0	3.6	.0	.0	.0	.0		3.6
1-2	.6	1.4	2.3	.0	.0	.0		4.3	.0	2.4	1.3	.0	.0	.0		3.7
3-4	.0	.4	.6	.0	.0	.0		1.0	.0	.0	.1	.0	.0	.0		.1
5-6	.0	.6	2.3	.0	.0	.0		2.9	.0	.6	1.1	.0	.0	.0		1.7
7	.0	.6	.4	.4	.0	.0		1.4	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	5.0	6.0	.9	.0	.0		13.0	.0	6.6	2.6	.0	.0	.0		9.1

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	2.3	.6	.0	.0	.0		2.9
1-2	.0	2.1	1.6	.0	.0	.0		3.7	.0	.7	.0	.0	.0	.0		.7
3-4	.0	.0	2.1	.0	.0	.0		2.1	.0	1.1	1.4	.0	.0	.0		2.6
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.0		.3
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.6	.0	.0		1.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	2.1	3.7	.0	.0	.0		5.9	.0	4.1	2.9	.6	.0	.0		7.6

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0021 DNKOTSK SEA SE
52.3N 152.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	2.1	1.1	.0	.0	.0	3.3	.0	1.9	4.3	.0	.0	.0	6.1
3-4	.0	.6	3.1	.0	.0	.0	3.7	.0	3.6	.0	.0	.0	.0	3.6
5-6	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	6.6	.0	.0	.0	9.7	.0	6.7	5.7	.0	.0	.0	12.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	1.1	.9	.7	.0	.0	.0	2.7	
1-2	.0	1.4	1.3	.0	.0	.0	2.7	.0	5.0	4.1	.0	.0	.0	9.1	
3-4	.0	1.0	1.7	.0	.0	.0	2.7	.0	3.0	3.4	.0	.0	.0	6.4	
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.6	1.1	.0	.0	.0	1.7	
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.7	.1	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.6	5.3	.0	.0	.0	9.9	1.1	9.4	10.1	.3	.0	.0	21.0	88.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.1	12.6	1.7	.0	.0	.0	27.4	
1-2	.6	17.1	16.0	.0	.0	.0	33.7	
3-4	.0	9.7	12.6	.0	.0	.0	22.3	
5-6	.0	1.7	9.7	.0	.0	.0	11.4	
7	.0	.6	2.3	.6	.0	.0	3.4	
8-9	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.6	.6	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.7	41.7	42.9	1.7	.0	.0	100.0	175

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	20.4	13.7	8.7	3.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	152	3
6-7	.3	1.0	2.3	5.7	5.4	1.0	.3	.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	6
8-9	.0	.7	.7	.3	.7	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
10-11	.0	1.0	.0	.3	.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
12-13	.0	.0	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	8.0	3.3	6.4	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	2
TOTAL	39	79	69	59	32	8	7	1	4	1	0	0	0	0	0	0	0	0	0	299	4
PCT	19.0	26.4	23.1	19.7	10.7	2.7	2.3	.3	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974AREA 0021 OKHOTSK SEA SE
52.4N 152.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	4.7	.0	.0	.0	.0	4.7	.0	.0	.0	.0	6.2	.0	89.1
NE	5.9	.0	2.9	.0	.0	.0	.0	8.8	.0	.0	5.9	5.9	5.9	.0	73.5
E	41.8	.0	.0	.0	.0	.0	.0	41.8	.0	.0	.0	.0	.0	.0	58.2
SE	42.7	.0	4.8	.0	.0	.0	.0	47.6	.0	.0	3.2	.0	.0	.0	49.2
S	5.6	.0	6.0	.0	.0	.0	.0	11.6	.0	.0	13.9	1.9	.0	.0	72.7
SW	.0	.0	.7	.0	.0	.0	.0	.7	5.2	.0	17.0	.0	2.6	2.6	71.9
W	1.2	.0	.0	.0	.0	.0	.0	1.2	.0	.0	11.5	.0	.0	.0	87.3
NW	4.3	.0	.0	.0	.0	.0	.0	4.3	1.7	.0	2.2	.0	.0	.0	91.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.3	.0	.0	.0	.0	4.3	.0	.0	4.3	.0	4.3	4.3	82.6
TOT PCT	8.4	.0	2.6	.0	.0	.0	.0	11.0	1.0	.0	7.5	.6	1.6	.6	77.6
TOT OBS:	308														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.7	.0	4.4	.0	.0	.0	.0	12.1	.0	.0	9.9	1.1	1.1	2.2	73.6
06009	9.7	.0	2.8	.0	.0	.0	.0	12.5	1.4	.0	2.8	.0	2.8	.0	80.6
12015	8.4	.0	1.2	.0	.0	.0	.0	9.6	1.2	.0	8.0	1.2	2.4	1.2	78.3
18021	6.2	.0	2.5	.0	.0	.0	.0	8.6	1.2	.0	8.6	.0	.0	.0	81.5
TOT PCT TOT OBS:	8.0 327	.0	2.8	.0	.0	.0	.0	10.7	.9	.0	7.0	.6	1.5	.9	78.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.3	5.4	1.6	.0	.0		10.5	14.3	13.3	10.0	8.8	17.9	10.5	5.9	8.9	10.5	
NE	.7	2.7	.8	1.5	.0	.0		5.7	12.5	5.5	10.0	7.9	2.4	.9	5.9	6.7	7.9	
E	.4	1.9	2.0	.3	.2	.3		5.1	14.5	5.1	12.5	1.9	14.3	3.2	8.8	4.0	5.3	
SE	1.0	3.9	5.9	1.5	.6	.0		13.0	14.6	5.9	17.5	11.1	25.0	9.1	26.5	12.5	28.9	
S	.6	5.6	7.9	3.8	.3	.0		18.1	14.8	12.9	18.8	19.0	21.4	23.6	26.5	12.5	23.7	
SW	.8	4.6	6.4	.9	.0	.0		12.6	12.3	20.7	16.3	8.8	.0	7.3	8.5	17.9	5.3	
W	.3	6.5	5.3	1.7	.0	.0		13.7	12.4	15.2	10.0	13.9	3.6	16.4	5.9	15.6	13.2	
NW	1.1	4.6	8.1	1.1	.3	.0		15.2	13.3	16.8	5.0	21.3	14.3	20.0	11.8	11.2	5.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.0							6.0	.0	4.7	.0	7.4	.0	9.1	.0	10.7	.0	
TOT OBS	33	99	125	37	4	1	299		12.8	64	20	54	14	55	17	56	19	
TOT PCT	11.0	33.1	41.8	12.4	1.3	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.5	5.2	3.3	.6	.0		10.5	14.3	12.5	10.7	9.4	9.3	
NE	2.4	1.7	.9	.7	.0		5.7	12.5	6.5	7.0	2.1	7.0	
E	1.7	1.8	1.2	.2	.3		5.1	14.5	6.8	4.4	4.5	4.3	
SE	2.1	5.9	3.3	1.7	.0		13.0	14.6	8.6	14.0	13.2	16.7	
S	3.8	7.4	5.4	1.5	.0		18.1	14.8	14.3	19.5	24.3	13.3	
SW	2.3	8.0	2.0	.3	.0		12.6	12.3	19.6	7.0	7.6	14.7	
W	2.5	8.4	2.2	.6	.0		13.7	12.4	14.0	11.8	13.9	13.0	
NW	2.4	9.4	2.8	.5	.0		15.2	13.3	14.0	19.9	18.1	9.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.0						6.0	.0	3.6	5.9	6.9	8.0	
TOT OBS	74	143	63	18	1	299		12.8	84	68	72	75	
TOT PCT	24.7	47.8	21.1	6.0	.3		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.4N 152.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.6	7.1	34.5	35.7	16.7	1.2	1.2	13.8	100.0	84	
06009	5.9	1.5	36.8	38.2	17.6	.0	.0	13.3	100.0	68	
12015	6.9	4.2	29.2	50.0	6.9	2.8	.0	12.6	100.0	72	
18021	8.0	6.7	32.0	44.0	8.0	1.3	.0	11.4	100.0	75	
TOT	18	15	99	125	37	4	1	12.8		299	
PCT	6.0	5.0	33.1	41.8	12.4	1.3	.3	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.3	.7	5.2	3.7		5.1
NE	.7	.0	1.5	2.2		6.2
E	.0	.0	.5	1.7		7.5
SE	.5	.5	1.1	1.4		8.3
S	4.2	.0	3.7	7.7		5.4
SW	2.6	2.9	1.5	5.3		5.1
W	4.7	1.8	4.2	5.1		4.9
NW	4.2	4.0	7.8	7.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	3.3	1.4	1.4	3.8		4.4
TOT OBS	50	24	57	81	212	5.2
TOT PCT	23.6	11.3	26.9	38.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT+NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH 4/8 BY WIND DIRECTION											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.4	.9	2.4	1.2	1.5	.9	.4	.4	4.8	
.9	.0	.0	.0	.6	.9	.8	.0	.0	.0	1.2	
.0	.0	.0	.4	.9	.8	.0	.0	.0	.0	.0	
.0	.0	.1	.1	.0	1.8	.9	.0	.0	.0	.9	
1.3	.0	.4	.8	.5	5.3	.7	.0	.9	.0	9.7	
.6	.0	.5	.1	.0	4.0	.7	.0	.0	.0	6.5	
1.3	.0	.0	.0	2.0	4.4	.7	.0	.5	.0	7.0	
.1	.0	.6	.0	4.5	4.7	1.7	.9	.6	.1	9.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.0	.5	.0	.0	2.4	.0	.0	.9	.5	4.7	
11	0	5	5	23	54	15	4	7	2	86	
5.2	0	2.4	2.4	10.8	23.5	7.1	1.9	3.3	.9	40.6	212
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >A500	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >5000	4.1	5.9	6.3	6.3	6.3	6.3	6.3	6.3
= OR >3500	8.1	12.2	13.5	13.5	13.5	13.5	13.5	13.5
= OR >2000	27.0	36.9	39.6	39.6	39.6	39.6	39.6	39.6
= OR >1000	32.9	47.7	50.9	50.9	50.9	50.9	50.9	50.9
= OR >600	34.2	49.1	52.7	52.7	53.2	53.2	53.2	53.6
= OR >300	35.1	50.9	55.0	55.0	55.4	55.4	55.4	55.9
= OR >150	35.1	50.9	55.0	55.0	55.4	55.4	55.4	55.9
= OR >0	35.6	51.4	56.3	56.8	57.7	58.1	59.0	59.9
TOTAL	79	114	125	126	128	129	131	133

TOTAL NUMBER OF OBS: 222

PCT FREQ NH <5/8: 40.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	16.8	3.8	7.6	4.2	5.9	4.2	11.3	7.6	34.5	4.2	238

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974AREA 0021 OKHOTSK SEA SE
52.4N 132.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	1.1	2.7	.2	.0	.0	.0	.0	.0	3.9	
	NO PCP	.0	.3	.0	.3	1.3	1.3	1.6	.4	.0	.3	5.6	
	TOT %	.0	.3	1.1	3.0	1.5	1.3	1.6	.4	.0	.3	9.5	
1/2<1	PCP	.0	.3	.0	1.2	.2	.0	.0	.0	.0	.0	1.6	
	NO PCP	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	1.6	
	TOT %	.0	.3	.0	1.2	1.0	.8	.0	.0	.0	.0	3.3	
1<2	PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.5	
2<5	PCP	.0	.0	.7	.7	1.2	.1	.0	.3	.0	.3	3.3	
	NO PCP	.9	.4	.2	1.2	.9	.7	.7	.0	.0	.0	4.9	
	TOT %	.9	.4	.9	1.9	2.1	.7	.7	.3	.0	.3	8.2	
5<10	PCP	.5	.2	.0	.0	.3	.0	.2	.0	.0	.0	1.2	
	NO PCP	3.1	1.5	1.5	.4	3.9	2.2	2.8	6.6	.0	1.6	23.7	
	TOT %	3.6	1.6	1.5	.4	4.3	2.2	3.0	6.7	.0	1.6	25.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	5.8	2.5	.9	3.5	8.4	7.5	8.4	11.0	.0	5.3	53.3	
	TOT %	5.8	2.5	.9	3.5	8.4	7.5	8.4	11.3	.0	5.3	53.6	
TOT OBS		10.4	5.3	4.5	10.1	11.2	12.6	13.6	18.6	.0	7.6	100.0	304
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.5	2.9	2.4	.3	2.1	.3	.0		8.7	
	11-21	.0	.0	.8	2.5	.9	1.9	.8	.4	.0		7.3	
	22+	.0	.0	.0	.0	.0	.2	.5	.3	.0		1.0	
	TOT %	.0	.0	1.3	5.4	3.3	2.4	3.4	1.1	.0	.3	17.3	
1/2<1	0-3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.5	.5	.0	.0	.0		1.0	
	22+	.0	.3	.0	1.0	.0	.0	.0	.0	.0		1.4	
	TOT %	.0	.3	.0	1.2	1.0	.5	.0	.0	.0	.0	3.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.0	.0	.0	.3	.0	.0		.7	
	11-21	.0	.0	.2	.2	.0	.3	.0	.0	.0		.7	
	22+	.0	.0	.0	.2	.2	.0	.0	.0	.0		.3	
	TOT %	.0	.3	.2	.3	.2	.3	.3	.0	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.1	.3	.3	.3	.3	.0	.3	.0		2.1	
	11-21	1.4	.0	.8	1.6	.7	.0	.3	.0	.0		4.8	
	22+	.0	.3	.2	.3	.9	.4	.3	.0	.0		2.4	
	TOT %	1.6	.4	1.3	2.2	1.9	.8	.7	.3	.0	.0	9.3	
5<10	0-3	.3	.3	.4	.0	.0	.0	.0	.0	.0	1.4	2.4	
	4-10	.9	.4	.6	.1	1.2	1.2	1.0	1.5	.0		6.9	
	11-21	1.2	.1	.2	.2	1.7	.4	1.1	2.7	.0		7.6	
	22+	.5	.9	.0	.2	.9	.0	.0	.7	.0		3.1	
	TOT %	2.9	1.7	1.2	.4	3.8	1.6	2.2	4.8	.0	1.4	20.1	
10+	0-3	.0	.3	.0	.9	.4	.8	.3	1.1	.0	4.5	8.3	
	4-10	2.2	1.9	.5	.7	1.3	2.7	3.3	2.6	.0		13.2	
	11-21	2.8	.4	.2	1.6	3.6	3.0	3.2	5.2	.0		20.1	
	22+	.8	.0	.3	.4	2.1	.0	.9	.4	.0		4.8	
	TOT %	5.8	2.7	1.0	3.6	7.4	6.5	7.6	9.3	.0	4.5	48.4	
TOT OBS		10.3	5.3	4.9	13.3	17.6	12.2	14.2	13.7	.0	6.2	100.0	289
TOT PCT													

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.0	.0	3.0	3.0	16.7	27.3	3.0	1.5	1.5	3.0	62.1	37.9	66
06009	5.5	.0	3.6	.0	9.1	32.7	10.9	1.8	3.6	.0	67.3	32.7	55
12015	5.4	.0	3.6	1.8	3.6	21.4	8.9	1.8	5.4	.0	51.8	48.2	56
18021	6.0	.0	.0	6.0	14.0	20.0	6.0	2.0	4.0	.0	58.0	42.0	50
TOT	11	0	6	6	25	58	16	4	8	2	136	91	227
PCT	4.8	.0	2.6	2.6	11.0	25.6	7.0	1.8	3.5	.9	59.9	40.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	13.4	3.1	2.1	8.2	19.6	53.6	97
06009	13.6	2.5	1.2	9.9	14.8	58.0	81
12015	13.5	2.2	2.2	9.0	34.8	38.2	89
18021	16.9	4.5	.0	9.0	23.6	46.1	89
TOT	51	11	9	32	83	174	356
PCT	14.3	3.1	1.4	9.0	23.3	48.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.0	7.6	13.6	51.5	34.8	66
06009	5.5	9.1	12.7	54.5	32.7	55
12015	5.7	7.5	15.1	37.7	47.2	53
18021	4.2	4.2	12.5	45.8	41.7	48
TOT	10	16	30	106	86	222
PCT	4.5	7.2	13.5	47.7	38.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	8.0	36.0	11	44.0
45/49	.0	.0	.0	.0	4.0	4.0	12.0	36.0	14	56.0
TOTAL	0	0	0	0	1	1	5	18	25	100.0
PCT	.0	.0	.0	.0	4.0	4.0	20.0	72.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	12.0	.0	.0	4.0	.0	14.0	14.0	.0	.0
45/49	15.0	1.0	11.0	.0	.0	8.0	11.0	10.0	.0	.0
TOTAL	15.0	13.0	11.0	.0	4.0	8.0	25.0	24.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	61	60	52	49	39	39	52.0	93
06009	64	63	58	52	49	37	37	51.8	80
12015	73	68	55	50	46	45	45	50.7	87
18021	61	59	55	50	49	41	41	49.6	88
TOT	73	61	58	50	49	41	37	51.0	348

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	66.7	33.3	87	6
06009	.0	.0	.0	.0	33.3	66.7	93	3
12015	.0	.0	.0	.0	.0	100.0	98	2
18021	.0	.0	7.1	7.1	.0	85.7	91	14
TOT	0	0	1	1	5	18	91	25

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
14/16	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
11/13	.0	.0	.0	.4	.4	.0	.0	3	.0	1.2
9/10	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.0	.4	.0	1.6	.4	6	.0	2.4
6	.0	.0	.4	.4	.4	.4	.0	4	.0	1.6
5	.0	.0	.8	.4	1.2	.8	.8	10	.0	4.0
4	.0	.0	.4	2.0	1.6	.4	.4	12	1.2	3.6
3	.0	.0	.0	2.4	1.6	.4	.0	11	.0	4.4
2	.0	.0	.4	5.2	4.4	.8	.0	27	.8	10.0
1	.0	.0	2.0	2.0	4.0	.0	.0	20	.0	8.0
0	.0	.0	8.4	13.3	5.6	2.0	.0	73	3.2	26.1
-1	.0	1.2	4.0	3.6	.8	.0	.0	24	.0	9.6
-2	.0	.0	4.4	3.6	.8	.4	.0	23	2.4	6.8
-3	.0	.0	.8	1.6	.0	.0	.0	6	.0	2.4
-4	.0	.0	1.6	1.2	.8	.0	.0	9	.0	3.6
-5	.0	.0	2.0	1.2	.4	.0	.0	9	.0	3.6
-6	.0	.0	.0	.4	.0	.0	.0	1	.0	.4
-7/-8	.0	.0	1.6	.0	.0	.0	.0	4	.0	1.6
-9/-10	.0	.0	1.2	.0	.0	.0	.0	3	.0	1.2
-11/-13	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1	3	70	95	56	19	5	249	19	230
PCT	.4	1.2	28.1	38.2	22.5	7.6	2.0	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.8	.0	.0	.0	.0	.0	.8
1-2	.0	1.2	2.0	.0	.0	.0	3.1	.2	1.8	.0	.0	.0	.0	2.0
3-4	.0	1.6	1.4	.0	.0	.0	2.9	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.8	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	3.9	1.8	.0	.0	9.0	1.0	1.8	.8	.8	.0	.0	4.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.8	1.0	.0	.0	.0	.0	1.8
1-2	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.8	.6	.0	.0	.0	1.4	.0	.8	1.0	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.1	.6	.6	.0	.0	3.9	.8	1.8	1.2	.2	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	1.6
1-2	.0	2.1	2.9	.0	.0	.0	5.1	.8	1.8	1.2	.0	.0	.0	3.7
3-4	.0	.8	6.3	.8	.0	.0	7.6	.0	1.8	1.8	.0	.0	.0	3.5
5-6	.0	.0	.8	1.6	.0	.0	2.3	.0	.8	2.3	.0	.0	.0	3.1
7	.0	.0	1.4	1.6	.0	.0	2.9	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	11.3	5.3	.0	.0	19.3	1.6	5.1	5.3	1.0	.0	.0	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	1.6	.0	.0	.0	.0	2.1	.2	1.8	.0	.0	.0	.0	.0	2.0
1-2	.0	3.1	3.5	.0	.0	.0	6.6	.8	3.2	2.1	.0	.0	.0	.0	6.3
3-4	.0	1.6	2.5	.0	.0	.0	4.1	.0	1.6	3.7	.0	.0	.0	.0	5.3
5-6	.0	.0	.0	.8	.0	.0	.8	.0	.0	2.3	.0	.0	.0	.0	2.3
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.0	.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.8	.6	.8	.0	.0	2.1
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.3	7.4	2.0	.0	.0	16.2	1.0	6.6	10.2	1.0	.8	.0	19.5	89.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.1	7.0	.0	.0	.0	.0	21.1	
1-2	2.3	13.3	11.7	.0	.0	.0	27.3	
3-4	.0	8.6	18.0	.8	.0	.0	27.3	
5-6	.0	.8	5.3	3.1	.0	.0	9.4	
7	.0	.0	3.9	3.1	.0	.0	7.0	
8-9	.0	.0	.8	3.9	.8	.0	5.5	
10-11	.0	.0	.8	.0	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.6	.0	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.4	29.7	40.6	12.5	.8	.0	100.0	128

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	7.6	17.9	15.7	2.7	1.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	4
6-7	.0	.0	3.6	3.6	4.5	3.1	2.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
8-9	.0	.0	.9	.4	1.3	1.8	1.8	.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	9
10-11	.0	.0	.4	.4	.4	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	3.1	1.8	8.1	4.5	4.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	4
TOTAL	8	21	70	56	29	21	13	1	4	0	0	0	0	0	0	0	0	0	0	223	5
PCT	3.6	9.4	31.4	25.1	13.0	9.4	5.8	.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1907-1974

OCTOBER

AREA 0021 OKMOTSK SEA SE
52.4N 152.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.2	3.0	4.4	.0	2.2	.0	2.2	14.1	2.2	.0	.0	.0	2.2	.0	81.5
NE	15.0	.0	2.5	.0	.0	.0	.0	17.5	.0	.0	2.5	.0	2.5	.0	77.5
E	25.9	7.4	7.4	.0	.0	.0	.0	40.7	.0	.0	5.6	.0	.0	.0	53.7
SE	9.9	.0	.0	.0	.0	.0	.0	9.9	11.9	.0	4.0	.0	7.9	.0	66.3
S	16.3	3.3	3.3	.0	.0	.0	.0	22.8	.0	.0	3.3	.0	.0	.0	74.0
SW	1.5	.0	6.1	.0	.0	.0	.0	7.6	3.8	.0	6.1	3.1	3.1	.0	76.3
W	1.2	.0	3.3	.0	7.4	.0	.0	11.9	12.3	.0	1.6	.0	.0	.0	74.2
NW	2.5	1.7	5.4	.0	4.6	.0	.4	12.9	2.5	.0	.0	.0	.0	.0	84.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.9	1.5	4.1	.0	3.0	.0	.4	14.5	5.2	.0	2.2	.4	1.5	.0	76.2
TOT OBS:	269														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	8.1	2.3	2.3	.0	1.2	.0	.0	14.0	4.7	.0	.0	.0	.0	.0	81.4
06009	4.1	.0	3.4	.0	2.7	.0	1.4	13.5	4.1	.0	2.7	.0	1.4	.0	78.4
12015	6.8	1.7	3.1	.0	5.1	.0	.0	18.6	5.1	.0	1.7	1.7	.0	.0	72.9
18021	8.2	1.6	3.3	.0	3.3	.0	.0	14.8	8.2	.0	6.6	.0	4.9	.0	65.6
TOT PCT TOT OBS:	6.8 280	1.4	3.9	.0	2.9	.0	.4	15.0	5.4	.0	2.5	.4	1.4	.0	75.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	3.6	5.8	1.1	.4	.0	10.7	15.6		15.9	14.3	10.3	.0	10.3	.0	4.3	15.9
NE	.0	1.6	3.5	.3	.0	.0	5.4	14.3		7.5	.0	4.4	15.6	2.7	.0	6.1	4.5
E	.0	1.6	2.4	.7	.0	.0	5.2	15.8		6.0	.0	3.9	21.9	4.3	.0	4.3	6.8
SE	.4	1.1	4.0	.7	.0	.0	6.2	15.1		7.1	.0	4.4	.0	10.9	.0	3.7	9.1
S	.3	2.6	3.6	2.3	.4	.0	9.2	17.7		13.9	14.3	8.8	.0	3.8	.0	12.8	.0
SW	.5	4.1	4.1	2.7	.4	.0	12.0	15.3		12.3	.0	10.3	.0	17.4	33.3	13.4	.0
W	.0	6.3	9.7	3.7	5.1	.8	27.5	21.6		17.5	50.0	33.8	25.0	22.8	58.3	34.1	29.5
NW	.0	4.2	11.0	7.1	.5	.1	22.9	18.4		19.8	21.4	22.1	37.5	27.7	8.3	18.9	34.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0		.0	.0	2.0	.0	.0	.0	2.4	.0
TOT OBS	5	58	102	47	16	2	230	17.8		63	7	51	8	46	3	41	11
TOT PCT	2.2	25.2	44.3	20.4	7.0	.9	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.5	5.0	2.6	1.5	.0		10.7	15.6	15.7	8.9	9.7	6.7		
NE	.7	2.7	1.8	.2	.0		5.4	14.3	6.8	5.9	2.6	5.8		
E	.4	2.3	2.2	.3	.0		5.2	15.8	5.4	6.4	4.1	4.8		
SE	.5	2.8	2.8	.0	.0		6.2	15.1	6.4	3.8	10.2	4.8		
S	1.5	2.2	4.7	.9	.0		9.2	17.7	13.9	7.6	3.6	10.1		
SW	2.3	5.1	3.3	1.3	.0		12.0	15.3	11.1	8.9	18.4	10.6		
W	4.1	6.7	8.0	5.2	3.4		27.5	21.6	20.7	32.6	25.0	33.2		
NW	1.1	10.1	7.2	4.0	.5		22.9	18.4	20.0	24.2	26.5	22.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.9						.9	.0	.0	1.7	.0	1.9		
TOT OBS	30	85	75	31	9	230		17.8	70	59	49	53		
TOT PCT	13.0	37.0	32.6	13.5	3.9		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1958-1974
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AREA 0021 OKHOTSK SEA SE
52.4N 152.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47			
00003	.0	1.4	17.1	52.9	13.6	8.6	1.4	19.5	100.0
06009	1.7	.0	32.2	42.4	20.3	3.4	.0	16.2	100.0
12015	.0	.0	20.4	53.1	20.4	6.1	.0	17.8	100.0
18021	1.9	3.8	32.7	26.9	23.1	9.6	1.9	17.5	100.0
TOT	2	3	58	102	47	16	2	17.8	230
PCT	.9	1.3	25.2	44.3	20.4	7.0	.9	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.8	5.3	5.3		6.6
NE	.0	.5	1.1	2.6		7.2
E	.5	.5	.5	3.7		6.7
SE	.0	.5	2.5	6.2		7.4
S	.5	.5	5.7	6.3		6.7
SW	2.3	.6	2.3	7.7		6.2
W	3.2	3.9	7.5	8.1		5.7
NW	2.3	.7	9.1	8.7		6.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.5	.0		5.0
TOT OBS	20	17	75	106	218	6.4
TOT PCT	9.2	7.8	34.4	48.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	1.0	.0	.0	.0	1.9	4.8	.8	.0	.3	.3	2.5	
NE	.3	.5	.0	.0	.8	1.5	.5	.0	.0	.1	.6	
E	.3	.0	.0	.5	2.1	1.3	.0	.0	.0	.0	.9	
SE	2.3	.0	.2	.0	1.1	1.4	.5	.5	2.8	.0	.5	
S	.5	.0	.7	.8	3.2	5.3	.0	.0	.5	.3	1.7	
SW	.9	.0	.0	1.9	2.5	3.4	.0	.0	.0	.1	3.9	
W	1.4	.0	.0	.9	3.1	6.2	3.1	.0	.0	.0	8.0	
NW	.6	.0	.0	.9	3.6	8.7	2.1	.0	.1	.5	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
TOT OBS	16	1	2	11	40	71	15	1	8	3	50	218
TOT PCT	7.3	.5	.9	5.0	18.3	32.6	6.9	.5	3.7	1.4	22.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	4.4	4.4	4.9	4.9	4.9	4.9	4.9	4.9
>5000	4.9	4.9	5.3	5.3	5.3	5.3	5.3	5.3
>3500	8.4	11.6	12.0	12.0	12.0	12.0	12.0	12.0
>2000	26.7	40.4	44.0	44.4	44.4	44.4	44.4	44.4
>1000	32.4	53.8	60.9	62.2	62.2	62.2	62.2	62.2
>600	32.4	56.4	65.8	67.1	67.1	67.1	67.1	67.1
>300	33.3	57.3	67.1	68.4	68.4	68.4	68.4	68.4
>150	33.8	57.8	67.6	68.9	69.3	69.3	69.3	69.3
>0	35.1	59.6	70.7	73.3	74.2	75.1	77.3	77.3
TOTAL	79	134	159	165	167	169	174	174

TOTAL NUMBER OF OBS: 225

PCT FREQ NM <5/8: 22.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	4.4	3.6	5.6	4.0	4.8	4.8	9.1	15.9	40.5	252

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1907-1974

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AREA 0021 OKHOTSK SEA SE
52.4N 152.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.0	.0	.0	.0	.0	.4	.4	.0	.0	1.1	
	NO PCP	.0	.0	.0	.7	.0	.7	.4	.0	.0	.0	1.9	
	TOT %	.4	.0	.0	.7	.0	.7	.4	.0	.0	.0	3.0	
1/2<1	PCP	.3	.0	.0	.0	.4	.0	.3	.2	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.4	.0	.3	.2	.0	.0	1.1	
1<2	PCP	.3	.0	.4	.0	.0	.4	.4	.5	.0	.0	1.9	
	NO PCP	.3	.1	.0	.0	.4	.5	.3	.0	.0	.0	1.5	
	TOT %	.6	.1	.4	.0	.4	.8	.7	.5	.0	.0	3.3	
2<5	PCP	.3	.5	.3	.0	1.7	.2	1.0	.9	.0	.0	4.8	
	NO PCP	1.3	.3	.9	1.9	.0	.7	1.8	2.0	.0	.0	8.9	
	TOT %	1.6	.7	1.2	1.9	1.7	.9	2.8	3.0	.0	.0	13.8	
5<10	PCP	.3	.1	1.4	.1	.3	.4	1.4	.9	.0	.0	4.8	
	NO PCP	2.3	.9	.6	.5	2.4	5.1	7.5	5.9	.0	.4	25.7	
	TOT %	2.6	1.0	2.0	.6	2.7	5.5	8.9	6.9	.0	.4	30.5	
10+	PCP	.3	.1	.0	.7	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	6.3	1.8	1.5	5.4	6.0	4.2	10.0	11.4	.0	.4	47.2	
	TOT %	6.6	1.9	1.5	6.1	6.0	4.2	10.0	11.4	.0	.4	48.3	
TOT OBS													269
TOT PCT		12.2	3.7	5.0	9.3	11.2	12.2	23.4	22.3	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.5	.5	.5	.0	.0	1.4	
	11-21	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	.0	.0	.0	.0	.9	.5	.5	.0	.0	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	11-21	.4	.0	.0	.0	.0	.0	.4	.2	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.0	.5	.0	.4	.2	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.9	.5	.0	.0	.0	1.4	
	22+	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.4	.1	.5	.0	.5	.9	.5	.0	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.5	.0	.6	.0	.0	1.4	
	11-21	.0	.5	.5	.0	.5	.0	.4	1.1	.0	.0	2.8	
	22+	.0	.2	.7	.0	.8	.6	3.2	1.1	.0	.0	6.5	
	TOT %	.4	.7	1.2	.0	1.3	1.1	3.5	2.7	.0	.0	10.7	
5<10	0-3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.9	
	4-10	.0	1.1	.8	.0	.0	1.4	.9	.5	.0	.0	4.7	
	11-21	1.3	.1	1.6	.2	1.3	1.1	5.0	2.0	.0	.0	12.6	
	22+	.0	.0	.0	.5	.9	1.9	4.3	3.6	.0	.0	11.2	
	TOT %	1.3	1.2	2.5	.7	2.2	4.8	10.3	6.1	.0	.5	29.4	
10+	0-3	.0	.0	.0	.0	.4	.1	.0	.0	.0	.5	.9	
	4-10	3.5	.7	.5	1.2	1.9	2.1	4.0	2.6	.0	.0	16.4	
	11-21	3.4	1.6	.5	3.9	2.1	2.0	3.3	7.6	.0	.0	24.3	
	22+	1.3	.0	.0	.1	.8	.9	4.9	3.6	.0	.0	11.7	
	TOT %	8.2	2.3	.9	5.1	5.1	5.1	12.1	13.8	.0	.5	53.3	
TOT OBS													214
TOT PCT		11.0	4.3	5.0	5.8	9.6	12.9	27.2	23.2	.0	.9	100.0	

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1907-1974

AREA 0021 OKHOTSK SEA SE
52.4N 152.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.2	1.2	.0	3.7	28.4	32.1	7.4	1.2	1.2	2.5	79.0	21.0	81
06009	9.1	1.5	.0	.0	13.6	37.9	6.1	.0	3.0	1.5	72.7	27.3	66
12015	12.2	.0	2.4	7.3	12.2	26.8	2.4	.0	9.8	.0	73.2	26.8	41
18021	15.6	.0	4.4	11.1	8.9	26.7	8.9	.0	2.2	.0	77.8	22.2	45
TOT	19	2	3	11	41	74	15	1	8	3	177	56	233
PCT	8.2	.9	1.3	4.7	17.6	31.8	6.4	.4	3.4	1.3	76.0	24.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.1	1.1	17.2	27.6	52.9	87
06009	4.1	1.4	2.7	9.5	24.3	58.1	74
12015	3.4	1.7	5.1	18.6	28.8	42.4	59
18021	6.7	1.7	5.0	10.0	41.7	35.0	60
TOT	9	4	9	39	84	135	280
PCT	3.2	1.4	3.2	13.9	30.0	48.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	1.3	2.5	20.0	60.0	20.0	80
06009	9.4	10.9	15.6	57.8	26.6	64
12015	10.3	12.8	33.3	43.6	23.1	39
18021	16.7	21.4	38.1	45.2	16.7	42
TOT	18	23	55	121	49	225
PCT	8.0	10.2	24.4	53.8	21.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	2.9	.0	1	2.9
45/49	.0	.0	.0	.0	2.9	2.9	.0	2.9	3	8.6
40/44	.0	.0	.0	.0	5.7	2.9	31.4	17.1	20	57.1
35/39	.0	.0	.0	.0	2.9	.0	20.0	8.6	11	31.4
TOTAL	0	0	0	0	4	2	19	10	35	100.0
PCT	.0	.0	.0	.0	11.4	5.7	54.3	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.7	2.1	.0	.0	5.7	.0	.0	.0
7.1	15.7	2.1	.0	.0	.7	19.3	12.1	.0	.0	.0
6.4	.7	.0	.0	.0	.0	2.9	21.4	.0	.0	.0
15.7	17.1	2.1	.7	2.1	.7	22.1	39.3	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	59	51	42	34	27	27	42.9	82
06009	56	55	52	42	36	32	32	43.1	74
12015	54	53	49	42	36	32	32	42.1	64
18021	53	54	48	41	36	32	32	41.3	63
TOT	60	54	50	42	36	32	27	42.4	283

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	20.0	10.0	50.0	20.0	82	10
06009	.0	.0	10.0	10.0	60.0	20.0	85	10
12015	.0	.0	20.0	.0	40.0	40.0	84	5
18021	.0	.0	9.1	.0	54.5	36.4	86	11
TOT	0	0	5	2	19	10	84	36

PERIOD: (PRIMARY) 1958-1974 (OVER-ALL) 1907-1974
 AREA 0021 OKHUTSK SEA SE
 52.4N 152.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	25	29	33	37	41	45	49	53	57	TOT	#OG	WD
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-7/-8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-9/-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-11/-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-14/-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-17/-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

TABLE 18

PERIOD: (OVER-ALL) 1963-1974

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23-25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26-32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41-48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41-48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87+	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TOT PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1907-1974

AREA 0021 OKHOTSK SEA SE
52.4N 152.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	WD FOG
6	.0	.0	.0	.0	.0	.5	.0	.0	.0	1	.0	.5
5	.0	.0	.0	.0	.5	.0	1.0	.5	.5	4	.5	1.4
4	.0	.0	.0	.0	1.0	.0	.0	.5	.0	3	.0	1.4
3	.0	.0	.0	.0	.0	.5	1.0	.0	.0	3	.0	1.4
2	.0	.0	.0	.5	1.4	3.3	1.0	.0	.0	13	.5	5.7
1	.0	.0	.0	1.0	1.9	1.9	.5	.0	.0	11	.0	5.3
0	.0	.0	.0	1.0	4.8	1.4	1.4	.0	.0	18	.0	8.6
-1	.0	.0	.0	1.4	8.1	3.8	1.0	.5	.0	31	.0	14.8
-2	.0	.0	.0	2.4	8.1	3.8	.5	.0	.0	31	.0	14.8
-3	.0	.0	.0	2.4	3.3	2.4	.5	.0	.0	18	.5	8.1
-4	.0	.0	1.0	2.4	5.3	3.4	.0	.0	.0	25	.0	12.0
-5	.0	.0	.5	5.7	2.4	1.0	.0	.0	.0	20	.0	9.6
-6	.0	.0	.5	3.3	.0	.0	.0	.0	.0	8	.0	3.8
-7/-8	.0	.0	3.3	2.9	1.4	.0	.0	.0	.0	16	.5	7.2
-9/-10	.0	.5	1.0	.0	.0	.0	.0	.0	.0	3	.0	1.4
-11/-13	.0	.0	.0	.5	.0	.0	.0	.0	.0	1	.0	.5
-14/-16	.0	.0	.5	.5	.0	.0	.0	.0	.0	2	.0	1.0
-17/-19	.5	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	1	1	14	80	46	12	4	1	209	4	205	
PCT	.5	.5	6.7	23.9	38.3	22.0	5.7	1.9	.5	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.2	.9	.0	.0	.0	3.0	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	1.1	.0	.0	.0	1.1
3-4	.0	.7	4.3	2.2	.0	.0	7.2	.0	.0	.2	.4	.0	.0	.7
5-6	.0	.0	.7	.0	.9	.0	1.5	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.2	.0	.0	1.1
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	9.6	2.2	.9	.0	15.4	.0	1.3	5.0	.7	.0	.0	7.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.7	.0	.0	.0	3.0
3-4	.0	.9	.9	.7	.0	.0	2.4	.0	.9	1.1	.0	.0	.0	2.0
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	.9	.7	.0	.0	1.5	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	3.0	1.3	.0	.0	6.1	.0	2.2	6.5	.2	.0	.0	8.9

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0021 OKHOTSK SEA SE
52.4N 152.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.0	.0	.0	.0	2.2	.2	2.0	.0	.0	.0	.0	2.2
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	.2	.9	.0	.0	.0	1.1
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.9	.0	.0	1.1
5-6	.0	.0	1.5	.7	.0	.0	2.2	.0	.9	1.1	.2	.0	.0	2.2
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.9	.9	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.3	3.0	2.2	.9	.0	11.1	.2	3.0	3.0	2.0	.0	.0	8.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.7	.0	.0	.0	.0	1.7	
1-2	.0	1.5	.9	.0	.0	.0	2.4	.0	2.0	1.3	.0	.0	.0	3.3	
3-4	.0	.9	5.0	.9	.0	.0	6.7	.0	1.1	4.1	.2	.0	.0	5.4	
5-6	.0	.7	.9	.0	.0	.0	1.5	.0	.2	4.6	.0	.0	.0	4.8	
7	.0	.0	2.6	.7	.9	.0	4.1	.0	.0	.9	1.1	.9	.0	2.8	
8-9	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	.9	.0	.0	.9	
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.9	10.0	5.7	.9	.0	20.4	.0	5.0	11.1	4.1	.9	.0	21.1	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	10.4	.9	.0	.0	.0	13.9	
1-2	.0	7.8	8.7	.0	.0	.0	16.5	
3-4	.0	4.3	16.5	5.2	.0	.0	26.1	
5-6	.0	1.7	14.8	.9	.9	.0	18.3	
7	.0	.0	6.1	5.2	1.7	.0	13.0	
8-9	.0	.0	1.7	3.5	.0	.0	5.2	
10-11	.0	.0	.9	1.7	.0	.0	2.6	
12	.0	.0	.9	.0	.0	.0	.9	
13-16	.0	.0	.0	1.7	.0	.0	1.7	
17-19	.0	.0	.9	.0	.0	.0	.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.9	.0	.9	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	24.3	51.3	18.3	3.5	.0	100.0	119

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	7.2	9.8	5.7	3.6	.5	1.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	4
6-7	1.5	1.5	2.1	6.2	3.6	2.6	2.1	2.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
8-9	.0	.0	.0	1.5	1.5	1.5	2.6	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
10-11	.0	.5	.0	.0	.0	.5	.5	2.1	1.0	1.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	13	13
12-13	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	6
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
INDEX	3.1	1.5	6.2	3.6	7.2	6.7	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	5
TOTAL	12	21	35	34	31	24	16	11	4	4	0	1	1	0	0	0	0	0	0	194	6
PCT	6.2	10.8	18.0	17.5	16.0	12.4	8.2	5.7	2.1	2.1	.0	.5	.5	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1944-1974

NOVEMBER

AREA 0021 OKHOTSK SEA SE
92.8N 159.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.0	.0	.0	.0	22.4	.0	.0	24.3	.0	.0	.0	.0	.0	.0	73.7
NE	2.3	.0	.0	.0	9.3	.0	.0	11.6	.0	.0	.0	.0	.0	.0	88.4
E	.0	12.5	.0	.0	25.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	75.0
SE	.0	3.7	.0	.0	29.6	.0	.0	33.3	14.8	.0	.0	.0	.0	.0	51.9
S	.0	6.0	.0	.0	.0	.0	.0	6.0	8.0	.0	.0	.0	.0	.0	86.0
SW	11.6	.0	.0	.0	7.2	.0	.0	18.8	18.8	.0	.0	.0	.0	.0	62.3
W	5.4	.0	.0	.0	29.3	.0	.0	32.0	16.3	.0	2.7	.0	.0	2.7	46.3
NW	.0	.0	.0	.0	21.0	.0	.0	21.0	12.1	.0	.0	.0	.0	.0	66.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.1	1.2	.0	.0	19.6	.0	.0	22.7	9.2	.0	.6	.0	.0	.6	66.9
TOT OBS:	163														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	1.8	.0	.0	.0	10.9	.0	.0	12.7	7.3	.0	.0	.0	.0	.0	80.0
06009	2.8	.0	.0	.0	27.9	.0	.0	30.6	8.3	.0	.0	.0	.0	.0	61.1
12015	2.5	5.0	.0	.0	30.0	.0	.0	35.0	15.0	.0	2.5	.0	.0	.0	47.5
18021	5.1	.0	.0	.0	15.4	.0	.0	17.9	10.3	.0	.0	.0	.0	2.6	69.2
TOT PCT	2.9	1.2	.0	.0	20.0	.0	.0	22.9	10.0	.0	.6	.0	.0	.6	63.9
TOT OBS:	170														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	4.5	8.2	8.6	.0	.0		21.9	17.6	20.6	50.0	16.3	91.7	14.1	.0	23.4	66.7	
NE	.0	2.4	3.0	1.2	.7	.0		7.3	16.1	12.2	.0	1.0	.0	2.3	.0	12.5	.0	
E	.0	1.2	2.4	1.2	.0	.0		5.1	15.5	9.4	.0	.0	.0	6.3	.0	3.1	.0	
SE	.0	.3	1.6	.2	.2	.0		2.3	17.3	1.7	.0	7.7	.0	.8	.0	.8	.0	
S	.0	2.6	4.4	.7	.5	.0		8.2	15.0	7.2	.0	7.7	.0	5.5	.0	14.8	.0	
SW	.3	1.4	.7	4.5	2.1	.2		9.3	25.4	7.2	.0	6.7	.0	16.4	.0	9.4	.0	
W	1.0	5.4	7.5	7.0	3.5	.5		25.0	21.0	22.2	37.5	38.5	.0	23.4	.0	20.3	33.3	
NW	.9	2.3	11.9	3.8	.7	.0		19.6	16.8	19.4	12.5	14.4	8.3	31.3	.0	15.6	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4							1.4	.0	.0	.0	7.7	.0	.0	.0	.0	.0	
TOT OBS	6	29	57	39	11	1	143		18.3	45	2	26	3	32	0	32	3	
TOT PCT	4.2	20.3	39.9	27.3	7.7	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	1.7	8.0	11.4	.7	.0		21.9	17.6	21.8	24.1	14.1	27.1
NE	1.6	2.6	2.4	.7	.0		7.3	16.1	11.7	.9	2.3	11.4
E	.0	1.9	3.1	.0	.0		5.1	15.5	9.0	.0	6.3	2.9
SE	.0	1.2	.9	.2	.0		2.3	17.3	1.6	6.9	.8	.7
S	.7	4.4	2.6	.5	.0		8.2	15.0	6.9	6.9	5.5	13.6
SW	1.0	1.0	3.5	2.1	1.6		9.3	25.4	6.9	6.0	16.4	8.6
W	2.4	7.7	6.8	6.1	1.9		25.0	21.0	22.9	34.3	23.4	21.4
NW	1.6	8.0	9.1	.9	.0		19.6	16.8	19.1	13.0	31.3	14.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.0	6.9	.0	.0
TOT OBS	15	50	57	16	5	143		18.3	47	29	32	35
TOT PCT	10.5	35.0	39.9	11.2	3.5		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1944-1974

AREA 0021 OKHOTSK SEA SE
52.8N 153.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	.0	23.4	42.6	27.7	4.3	2.1	18.4	100.0	47
06009	6.9	6.9	10.3	31.0	34.5	10.3	.0	19.3	100.0	29
12015	.0	6.3	18.8	34.4	31.3	9.4	.0	18.6	100.0	32
18021	.0	.0	23.7	48.6	17.1	8.6	.0	17.2	100.0	35
TOT	2	4	29	57	39	11	1	18.3		143
PCT	1.4	2.8	20.3	39.9	27.3	7.7	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.2	2.3	6.1	11.1		6.7
NE	1.2	1.6	1.8	1.0		4.3
E	.0	.0	1.4	3.3		7.7
SE	.0	.0	1.6	3.5		7.5
S	1.6	.8	3.9	2.3		5.4
SW	.0	.4	3.3	4.5		7.1
W	.6	2.7	8.4	10.0		6.7
NW	3.3	.8	10.7	7.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.8	.8	.0		5.0
TOT OBS	10	12	51	55	128	6.3
TOT PCT	7.8	9.4	39.8	43.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	3000 6499	3500 7999	4000+ 8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.7	.0	1.4	.0	2.5	7.0	1.4	.0	1.4	.0	4.3	
NE	.0	.0	.2	.8	.4	1.2	.2	.0	.0	.0	2.7	
E	.0	.0	.0	.8	1.4	.6	1.2	.0	.8	.0	.0	
SE	.0	.0	.0	.0	2.3	1.2	1.6	.0	.0	.0	.0	
S	.0	.0	.0	.0	.6	2.1	2.0	.0	.0	.0	3.9	
SW	1.0	.0	.0	.0	3.3	1.6	2.7	.0	.2	.0	1.4	
W	.6	.0	.0	2.7	6.8	5.1	2.0	.0	.6	.0	3.9	
NW	1.2	.0	.0	1.2	3.7	6.3	1.6	1.6	.2	.0	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
TOT OBS	7	0	2	7	27	32	16	2	4	0	31	128
TOT PCT	5.5	.0	1.6	5.5	21.1	25.0	12.5	1.6	3.1	.0	24.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	VSBY (NM)						
		OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >5000	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1
OR >3000	2.3	3.1	4.7	4.7	4.7	4.7	4.7	4.7
OR >2000	11.7	14.1	18.0	18.0	18.0	18.0	18.0	18.0
OR >1000	22.7	30.5	39.8	41.4	42.2	43.0	43.0	43.0
OR >500	31.3	45.3	55.5	59.4	62.5	63.3	63.3	63.3
OR >300	32.8	49.2	60.9	64.8	68.0	68.8	68.8	68.8
OR >150	33.6	50.0	61.7	65.6	69.5	70.3	70.3	70.3
OR >0	33.6	50.0	61.7	65.6	69.5	70.3	70.3	70.3
TOTAL	43	64	79	85	91	95	97	97

TOTAL NUMBER OF OBS: 128

PCT FREQ NH <5/8: 24.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	6.8	1.4	4.7	1.4	8.8	3.4	16.2	12.8	40.5	4.1	148

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PERIOD: (PRIMARY) 1958-1974
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52.8N 153.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	2.2	.2	.0	.0	.0	.2	1.1	.8	.0	.0	4.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.2	.2	.0	.0	.0	.2	1.1	.8	.0	.0	4.4	
1/2<1	PCP	1.6	.2	.0	.0	.0	.0	.6	.8	.0	.0	3.1	
	NO PCP	.5	.0	.0	.0	.0	.0	.6	.2	.0	.0	1.3	
	TOT %	2.0	.2	.0	.0	.0	.0	1.3	.9	.0	.0	4.4	
1<2	PCP	.0	.0	.0	.6	.0	.0	2.5	.0	.0	.0	3.1	
	NO PCP	.0	.0	.0	.6	.0	1.9	.6	.6	.0	.0	3.8	
	TOT %	.0	.0	.0	1.3	.0	1.9	3.1	.6	.0	.0	6.9	
2<5	PCP	1.6	.3	.6	.8	.5	.6	1.3	.6	.0	.0	6.3	
	NO PCP	2.8	.0	.0	.0	.0	2.0	3.0	1.6	.0	.0	9.4	
	TOT %	4.4	.3	.6	.8	.5	2.7	4.2	2.2	.0	.0	15.6	
5<10	PCP	.5	.2	.6	.0	.0	.6	.6	.6	.0	.0	3.1	
	NO PCP	2.8	.2	.6	.0	1.9	.8	5.2	3.0	.0	.6	15.0	
	TOT %	3.3	.3	1.3	.0	1.9	1.4	5.8	3.6	.0	.6	18.1	
10+	PCP	.0	.0	.0	.0	.0	.0	1.3	.6	.0	.0	1.9	
	NO PCP	11.9	9.8	3.1	2.2	5.5	3.4	6.3	10.0	.0	.6	48.8	
	TOT %	11.9	9.8	3.1	2.2	5.5	3.4	7.5	10.6	.0	.6	50.6	
TOT OBS													160
TOT PCT													
		23.8	6.7	5.0	4.2	7.8	9.5	23.0	18.8	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.7	
	4-10	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	22+	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	2.0	.2	.0	.0	.0	.2	.5	.7	.0	.0	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	11-21	1.1	.2	.0	.0	.0	.0	.0	.9	.0	.0	2.2	
	22+	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.4	
	TOT %	1.8	.2	.0	.0	.0	.0	1.4	.9	.0	.0	4.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	1.4	3.6	.7	.0	.0	5.8	
	TOT %	.0	.0	.0	.7	.0	1.4	3.6	.7	.0	.0	6.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.4	.0	.7	.0	.0	.0	1.4	.0	.0	.0	3.6	
	11-21	1.1	.4	.0	.7	.0	.0	.0	2.2	.0	.0	4.3	
	22+	1.4	.0	.0	.2	.5	1.6	3.4	.0	.0	.0	7.2	
	TOT %	4.0	.4	.7	.9	.5	1.6	4.9	2.2	.0	.0	15.1	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.5	.2	.0	.0	.7	.0	2.9	.7	.0	.0	5.0	
	11-21	1.3	.2	.7	.0	1.4	.2	1.8	2.3	.0	.0	7.9	
	22+	1.3	.0	.7	.0	.0	1.4	2.0	1.1	.0	.0	6.5	
	TOT %	3.1	.4	1.4	.0	2.2	1.6	6.7	4.1	.0	.7	20.1	
10+	0-3	.5	.0	.0	.0	.0	.2	.5	.9	.0	.7	2.9	
	4-10	2.0	2.3	.5	.4	2.0	1.4	.5	1.6	.0	.0	10.8	
	11-21	5.0	2.3	2.0	.2	3.1	.5	5.9	4.7	.0	.0	23.7	
	22+	4.1	1.8	.5	.2	.7	1.1	1.6	2.9	.0	.0	12.9	
	TOT %	11.7	6.5	3.1	.7	5.8	3.2	8.6	10.1	.0	.7	50.4	
TOT OBS													139
TOT PCT													
		22.5	7.6	5.2	2.3	8.5	8.1	25.7	18.7	.0	1.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.7	4.7	23.3	20.9	11.6	2.3	2.3	.0	69.8	30.2	43
06009	6.5	.0	.0	6.5	12.9	23.8	16.1	3.2	6.5	.0	77.4	22.6	31
12015	12.1	.0	.0	3.0	27.3	33.3	9.1	.0	3.0	.0	87.9	12.1	33
18021	3.8	.0	.0	7.7	19.2	15.4	15.4	.0	.0	.0	61.5	38.5	26
TOT	7	0	2	7	28	32	17	2	4	0	99	34	133
PCT	5.3	.0	1.5	5.3	21.1	24.1	12.8	1.5	3.0	.0	74.4	25.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.8	5.5	9.1	23.6	60.0	55
06009	2.9	2.9	11.4	28.6	11.4	42.9	35
12015	12.8	10.3	7.7	12.8	23.1	33.3	39
18021	2.6	5.3	9.3	13.2	13.2	60.5	38
TOT	7	8	12	25	31	84	167
PCT	4.2	4.8	7.2	15.0	18.6	50.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	4.8	14.3	57.1	28.6	42
06009	6.7	6.7	46.7	33.3	20.0	30
12015	12.9	25.8	43.2	43.2	9.7	31
18021	4.0	12.0	24.0	40.0	36.0	25
TOT	7	15	40	58	30	128
PCT	5.5	11.7	31.3	45.3	23.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.0	37.5	12.5	4	50.0
35/39	.0	.0	.0	.0	.0	.0	12.5	37.5	4	50.0
TOTAL	0	0	0	0	0	0	4	4	8	100.0
PCT	.0	.0	.0	.0	.0	.0	50.0	50.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	3.1	9.4	12.5	9.4	15.6	.0	.0
.0	.0	12.5	.0	.0	12.5	25.0	.0	.0	.0
.0	.0	12.5	3.1	9.4	25.0	34.4	15.6	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	42	41	41	30	19	12	12	31.1	52
06009	47	46	42	32	21	14	14	31.6	36
12015	40	39	38	32	23	16	16	31.4	41
18021	38	37	37	31	24	23	23	31.5	38
TOT	47	42	40	31	23	14	12	31.4	167

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	100.0	.0	85	2
06009	.0	.0	.0	.0	50.0	50.0	90	2
12015	.0	.0	.0	.0	100.0	.0	87	1
18021	.0	.0	.0	.0	.0	100.0	45	3
TOT	0	0	0	0	4	4	90	8

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	0° 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	H FOG	NO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	1	.0	.8
2	.0	.0	.0	.0	.0	.0	.0	1.6	.8	.0	3	.0	2.4
1	.0	.0	.0	.0	.0	.0	.0	1.6	.8	.0	3	.0	2.4
0	.0	.0	.0	.0	.0	.8	.0	2.4	.0	.0	4	.0	3.2
-1	.0	.0	.0	.0	.0	.0	4.0	.8	.0	.0	6	.0	4.8
-2	.0	.0	.0	.0	.0	.0	3.2	.8	.8	.0	6	.0	4.8
-3	.0	.0	.0	.0	.0	1.6	1.6	.0	.0	.8	5	.0	4.0
-4	.0	.0	.0	.0	.0	1.6	3.2	3.2	.8	.0	11	.0	8.8
-5	.0	.0	.0	.0	1.6	6.4	4.0	.8	.0	.0	16	.0	12.8
-6	.0	.0	.0	.0	3.2	3.2	.0	1.6	.0	.0	10	.0	8.0
-7/-8	.0	.0	.0	.0	4.0	6.4	3.2	2.4	.0	.0	20	.0	16.0
-9/-10	.0	.0	.0	1.6	7.2	2.4	.0	1.6	.0	.0	16	.8	12.0
-11/-13	.0	.0	.0	2.4	4.0	1.6	.0	.0	.0	.0	10	.0	8.0
-14/-16	.0	.0	.8	1.6	2.4	.8	.0	.0	.0	.0	7	.0	5.6
-17/-19	.8	.8	.0	.0	.8	.0	.0	.0	.0	.0	3	.0	2.4
-20/-22	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	2	.0	1.6
-23/-25	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	2	.0	1.6
TOTAL	1	3	1	7	31	24	21	5	1	125	1	124	
PCT	.8	2.4	.8	5.6	24.8	24.8	19.2	16.8	4.0	.8	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.9	1.2	.0	.0	.0	2.1	.0	2.7	2.7	.0	.0	.0	5.4
3-4	.0	.0	2.7	1.2	.0	.0	3.9	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	1.8	1.8	.0	.0	3.6	.0	.0	.3	1.8	.0	.0	2.1
7	.0	.0	1.2	3.6	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	9.0	9.9	.0	.0	21.1	.0	3.9	3.6	1.8	.0	.0	9.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	2.1	2.1	.0	.0	5.1	.0	.6	1.2	.3	.3	.0	2.4

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TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.0	.0	.0	.0		.9	.3	.0	.0	.0	.0	.0		.3
1-2	.0	2.4	1.2	.0	.0	.0		3.6	.3	.0	.0	.0	.0	.0		.3
3-4	.0	.0	.9	.0	.0	.0		.9	.0	.0	.3	.0	.0	.0		.3
5-6	.0	.0	.9	.0	.0	.0		.9	.0	.0	.3	1.2	.0	.0		1.5
7	.0	.0	.0	1.2	.0	.0		.0	.0	.0	.3	.0	.0	.0		.3
8-9	.0	.0	.0	1.2	.0	.0		1.2	.0	.0	.0	.3	.0	.0		.3
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	1.2	.0	.0	1.2	.3		2.7
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	1.2	.0		1.2
17-19	.0	.0	.0	.0	.9	.0		.9	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.3	3.0	1.2	.9	.0		8.4	.6	1.2	.9	1.5	2.4	.3		6.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.9	2.4	.0	.0	.0	.0		3.3	1.2	.0	.0	.0	.0	.0		1.2	
1-2	.9	4.3	.9	.0	.0	.0		6.3	.0	1.5	2.7	.0	.0	.0		4.2	
3-4	.0	.0	.0	2.4	.0	.0		2.4	.0	.0	1.5	1.2	.0	.0		2.7	
5-6	.0	.0	2.1	.0	.0	.0		2.1	.0	.0	3.0	.0	.0	.0		3.0	
7	.0	.0	3.0	1.2	.0	.0		4.2	.0	1.2	1.5	.0	.0	.0		2.7	
8-9	.0	.0	1.2	.9	.0	.0		2.1	.0	.0	1.2	.0	.0	.0		1.2	
10-11	.0	.0	2.4	.0	.0	.0		2.4	.0	.0	.0	.3	.0	.0		.3	
12	.0	.0	.0	.0	1.2	.9		2.1	.0	.0	.3	.0	.0	.0		.3	
13-16	.0	.0	.0	.0	1.2	.0		1.2	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	1.2	.0	.0		1.2	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	2.4	.0		2.4	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.8	6.9	9.6	5.7	4.8	.9		29.8	1.2	2.7	10.2	1.5	.0	.0		15.7	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	7.2	.0	.0	.0	.0	10.8	
1-2	1.2	12.0	9.6	.0	.0	.0	22.8	
3-4	.0	.0	7.2	4.8	.0	.0	12.0	
5-6	.0	.0	8.4	7.2	.0	.0	15.6	
7	.0	1.2	6.0	4.8	.0	.0	12.0	
8-9	.0	.0	3.6	2.4	.0	.0	6.0	
10-11	.0	.0	2.4	2.4	.0	.0	4.8	
12	.0	1.2	2.4	.0	2.4	1.2	7.2	
13-16	.0	.0	.0	1.2	2.4	.0	3.6	
17-19	.0	.0	.0	.0	1.2	.0	1.2	
20-22	.0	.0	.0	1.2	.0	.0	1.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	2.4	.0	2.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	21.7	39.8	24.1	8.4	1.2	100.0	83

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.6	6.3	6.9	2.1	2.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
6-7	.0	3.5	1.4	6.9	5.6	1.4	.7	4.2	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
8-9	.0	.7	.7	.7	2.8	.7	.0	.7	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
10-11	.0	.0	.7	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
12-13	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
>13	.0	.0	.0	.0	.0	.7	.0	.0	.7	.0	.7	.0	2.1	.0	.0	.0	.0	.0	.0	6	22
INDET	1.4	1.4	1.4	4.9	5.6	9.7	4.2	2.1	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	7
TOTAL	2	16	15	28	23	22	8	15	8	3	1	0	3	0	0	0	0	0	0	144	7
PCT	1.4	11.1	10.4	19.4	16.0	15.3	5.6	10.4	5.6	2.1	.7	.0	2.1	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	3.6	.0	23.8	.0	.0	27.4	3.6	.0	4.8	.0	3.6	.0	60.7
NE	.0	.0	.0	.0	17.6	.0	.0	17.6	.0	.0	5.4	.0	.0	.0	77.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	80.0
S	19.0	.0	.0	.0	19.0	.0	.0	19.0	.0	.0	.0	.0	.0	.0	81.0
SW	.0	.0	.0	.0	18.4	.0	.0	18.4	10.2	.0	.0	.0	.0	2.0	69.4
W	.0	.0	.0	.0	41.7	.0	.0	41.7	8.3	.0	.0	.0	.0	3.6	46.4
NW	3.7	.0	.9	.0	32.1	.0	.0	33.0	.9	.0	.0	.0	4.6	.0	61.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	11.1	.0	.0	11.1	11.1	.0	.0	.0	.0	.0	77.8
TOT PCT TOT OBS:	1.6 126	.0	.8	.0	24.6	.0	.0	25.4	4.0	.0	2.4	.0	1.6	.8	65.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	2.1	.0	.0	.0	17.0	.0	.0	17.0	.0	.0	.0	.0	2.1	2.1	78.7
06009	.0	.0	.0	.0	20.7	.0	.0	20.7	6.9	.0	6.9	.0	.0	.0	65.5
12015	.0	.0	.0	.0	41.0	.0	.0	41.0	5.1	.0	.0	.0	.0	2.6	51.3
18021	4.2	.0	4.2	.0	20.8	.0	.0	25.0	12.5	.0	4.2	.0	4.2	.0	54.2
TOT PCT TOT OBS:	1.4 139	.0	.7	.0	25.2	.0	.0	25.9	5.0	.0	2.2	.0	1.4	1.4	64.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.0	1.9	7.9	.7	1.7	.0		12.3	19.9	11.0	33.3	11.5	.0	13.4	.0	11.5	.0	
NE	1.0	2.9	5.3	1.9	1.0	.0		12.0	16.9	10.3	.0	20.8	.0	10.7	.0	7.7	.0	
E	.0	1.0	.7	.0	.0	.0		1.7	11.8	5.1	.0	.0	.0	.0	.0	.0	.0	
SE	.0	1.0	3.8	1.9	3.8	.0		10.6	26.0	11.8	.0	4.2	.0	14.3	.0	15.4	.0	
S	.0	.7	3.6	1.7	.0	.0		6.0	19.2	5.1	.0	11.5	.0	2.7	.0	7.7	.0	
SW	.0	1.2	9.1	.7	1.9	.0		13.0	19.3	7.4	.0	16.7	100.0	15.6	.0	3.8	.0	
W	.0	2.9	9.4	5.3	.7	.7		19.0	20.7	22.8	.0	13.5	.0	19.6	.0	25.0	.0	
NW	.0	6.7	9.1	3.1	1.4	.2		20.7	17.4	20.6	66.7	21.9	.0	12.5	.0	21.2	100.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8							4.8	.0	5.9	.0	.0	.0	7.1	.0	7.7	.0	
TOT OBS	6	19	51	16	11	1	104		18.6		34	3	24	1	28	0	13	
TOT PCT	5.8	18.3	49.0	15.4	10.6	1.0		100.0			100.0	100.0	100.0	100.0	100.0	.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.0	3.8	6.7	1.7	.0	12.3	19.9	12.8	11.0	13.4	10.7		
NE	1.9	3.8	4.3	1.9	.0	12.0	16.9	9.3	20.0	10.7	7.1		
E	.0	1.0	.7	.0	.0	1.7	11.8	4.7	.0	.0	.0		
SE	1.0	1.9	3.8	1.9	1.9	10.6	26.0	10.8	4.0	14.3	14.3		
S	.0	2.6	2.6	.7	.0	6.0	19.2	4.7	11.0	2.7	7.1		
SW	1.0	6.3	3.4	2.4	.0	13.0	19.3	6.8	20.0	19.6	3.6		
W	1.0	4.6	10.3	1.7	1.4	19.0	20.7	20.9	13.0	19.6	23.2		
NW	3.8	5.8	7.5	2.2	1.4	20.7	17.4	24.3	21.0	12.5	26.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.8					4.8	.0	5.4	.0	7.1	7.1		
TOT OBS	14	31	41	13	5	104		37	25	28	14		
TOT PCT	13.5	29.8	39.4	12.5	4.8		100.0		100.0	100.0	100.0		

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

DECEMBER

AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.4	.0	10.8	48.6	24.3	10.8	.0	20.6	100.0	37	
06009	.0	4.0	32.0	56.0	.0	8.0	.0	15.4	100.0	25	
12015	7.1	.0	21.4	42.9	17.9	10.7	.0	17.0	100.0	28	
18021	7.1	.0	7.1	50.0	14.3	14.3	7.1	22.2	100.0	14	
TOT	5	1	19	51	16	11	1	18.6		104	
PCT	4.8	1.0	18.3	49.0	15.4	10.6	1.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.0	5.4	9.2		7.2
NE	1.0	1.0	1.5	11.2		7.2
E	.0	1.0	.8	.0		4.7
SE	1.0	.0	.0	8.2		7.1
S	.0	1.8	1.8	2.8		6.0
SW	1.0	1.5	5.9	.5		5.5
W	1.0	1.8	3.6	7.7		6.6
NW	1.0	2.0	6.6	11.5		6.6
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	3.1	4.1	98	6.2
TOT OBS	6	10	28	54		6.6
TOT PCT	6.1	10.2	28.6	55.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.8	.0	.0	1.0	5.4	4.6	.0	.0	.0	.0	2.8	
NE	1.0	.0	.0	.0	5.1	3.6	1.0	.0	.0	.0	3.1	
E	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1.0	
SE	2.0	.0	.0	.0	1.0	3.1	1.0	.0	1.0	.0	1.0	
S	.0	.0	.0	1.0	.0	1.8	.8	.0	.0	.0	2.8	
SW	.0	.0	.0	.0	.0	3.3	.8	.0	.0	.0	4.8	
W	1.0	.0	.0	.0	5.1	2.8	1.5	.0	.0	.0	3.6	
NW	1.3	.0	.0	2.0	6.9	6.6	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	.0	.0	.0	4.1	1.0	.0	.0	.0	3.1	
TOT OBS	8	0	0	4	23	30	6	0	1	0	26	98
TOT PCT	8.2	.0	.0	4.1	23.5	30.6	6.1	.0	1.0	.0	26.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0	
>5000	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0	
>3500	3.9	5.8	6.8	6.8	6.8	6.8	6.8	6.8	
>2000	15.5	26.2	33.0	33.0	35.9	35.9	35.9	35.9	
>1000	26.2	41.7	52.4	54.4	58.3	58.3	58.3	58.3	
>600	27.2	43.7	55.3	57.3	62.1	62.1	62.1	62.1	
>300	27.2	43.7	55.3	57.3	62.1	62.1	62.1	62.1	
>150	27.2	43.7	55.3	57.3	62.1	62.1	62.1	62.1	
>0	28.2	44.7	58.3	62.1	67.0	69.9	70.9	70.9	
TOTAL	29	46	60	64	69	72	73	73	

TOTAL NUMBER OF OBS: 103

PCT FREQ NH <5/8: 29.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.7	2.5	5.8	5.8	9.2	3.3	7.5	10.0	46.7	7.5	120

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

DECEMBER

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52.7N 152.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.2	.0	.0	.0	.0	.8	.0	.4	.0	.8	3.2	
	NO PCP	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	1.2	.8	.0	.8	.0	.8	.0	.4	.0	.8	4.8	
1/2<1	PCP	.6	1.0	.0	.0	.0	.0	.0	2.4	.0	.0	4.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	1.0	.0	.0	.0	.0	.0	2.4	.0	.0	4.0	
1<2	PCP	.0	.0	.0	.0	.0	.2	3.8	1.6	.0	.0	5.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	
	TOT %	.0	.0	.0	.0	.0	.2	4.6	1.6	.0	.0	6.3	
2<5	PCP	2.8	1.6	.0	.8	1.6	.0	1.6	2.8	.0	.0	11.1	
	NO PCP	2.4	1.6	.0	.0	.6	1.8	.0	1.6	.0	.8	8.7	
	TOT %	5.2	3.2	.0	.8	2.2	1.8	1.6	4.4	.0	.8	19.8	
5<10	PCP	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	1.6	
	NO PCP	4.2	1.6	.0	2.4	.8	3.0	3.8	6.5	.0	.8	23.0	
	TOT %	4.2	1.6	.0	2.4	.8	3.8	4.6	6.5	.0	.8	24.6	
10+	PCP	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	
	NO PCP	5.6	7.9	.8	4.0	2.0	3.2	5.2	6.3	.0	4.8	39.7	
	TOT %	5.6	7.9	.8	4.0	2.0	3.2	6.0	6.3	.0	4.8	40.5	
TOT OBS													126
TOT PCT		16.7	14.5	.8	7.9	5.0	9.7	16.7	21.6	.0	7.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.7	.0	.0	.0	.0	1.0	.0	.2	.0	.0	2.0	
	22+	.7	.0	.0	1.0	.0	.0	.0	.2	.0	.0	2.0	
	TOT %	1.5	.0	.0	1.0	.0	1.0	.0	.5	.0	1.0	5.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.7	.2	.0	.0	.0	.0	.0	2.0	.0	.0	3.0	
	22+	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	2.0	
	TOT %	.7	1.2	.0	.0	.0	.0	.0	3.0	.0	.0	5.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	1.0	2.0	.0	.0	3.0	
	11-21	.0	.0	.0	.0	.0	.2	1.7	.0	.0	.0	2.0	
	22+	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0	
	TOT %	.0	.0	.0	.0	.0	.2	5.7	2.0	.0	.0	7.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	.0	.0	.0	.7	.2	.0	2.0	.0	.0	4.0	
	11-21	2.7	2.0	.0	1.0	1.0	2.0	2.0	2.2	.0	.0	12.9	
	22+	1.7	.0	.0	1.0	1.0	.0	.0	1.2	.0	.0	5.0	
	TOT %	5.4	2.0	.0	2.0	2.7	2.2	2.0	5.4	.0	.0	21.8	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
	4-10	1.0	1.0	.0	1.0	.0	1.0	.0	1.0	.0	.0	5.0	
	11-21	1.0	.0	.0	.0	1.0	1.5	2.5	3.0	.0	.0	8.9	
	22+	.0	.0	.0	2.0	.0	2.2	3.2	2.5	.0	.0	9.9	
	TOT %	2.0	1.0	.0	3.0	1.0	4.7	5.7	6.4	.0	1.0	24.8	
10+	0-3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.0	
	4-10	.0	2.0	1.0	.0	.0	.0	2.0	2.0	.0	.0	6.9	
	11-21	3.0	3.0	.0	3.0	1.7	3.7	3.5	2.0	.0	.0	19.8	
	22+	.0	2.0	.0	2.0	.7	.2	.0	.0	.0	.0	5.0	
	TOT %	3.0	7.9	1.0	5.0	2.5	4.0	5.4	4.0	.0	3.0	35.6	
TOT OBS													101
TOT PCT		12.6	12.1	1.0	10.9	6.2	12.1	18.8	21.3	.0	5.0	100.0	

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PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973AREA 0021 OKHOTSK SEA SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	7.5	20.0	32.5	5.0	.0	2.5	.0	67.5	32.5	40
06009	4.2	.0	.0	.0	29.2	25.0	4.2	.0	.0	.0	62.5	37.5	24
12015	25.0	.0	.0	4.2	16.7	29.2	8.3	.0	.0	.0	83.3	16.7	24
18021	12.5	.0	.0	.0	25.0	31.3	6.3	.0	.0	.0	75.0	25.0	16
TOT	9	0	0	4	23	31	6	0	1	0	74	30	104
PCT	8.7	.0	.0	3.8	22.1	29.8	5.8	.0	1.0	.0	71.2	28.8	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	6.3	4.2	10.4	20.8	56.3	48
06009	3.4	3.4	3.4	17.2	31.0	41.4	29
12015	5.1	5.1	15.4	23.1	20.5	30.8	39
18021	12.0	.0	4.0	28.0	40.0	16.0	25
TOT	7	6	10	26	37	55	141
PCT	5.0	4.3	7.1	18.4	26.2	39.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	7.7	23.1	46.2	30.8	39
06009	4.2	8.3	29.2	37.5	33.3	24
12015	25.0	29.2	45.8	37.5	16.7	24
18021	12.5	18.8	43.8	43.8	12.5	16
TOT	9	15	34	43	26	103
PCT	8.7	14.6	33.0	41.7	25.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	33.3	33.3	.0	2	66.7
35/39	.0	.0	.0	.0	.0	.0	.0	33.3	1	33.3
TOTAL	0	0	0	0	0	1	1	1	3	100.0
PCT	.0	.0	.0	.0	.0	33.3	33.3	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.0	33.3	.0	.0	.0	.0	.0	33.3	.0	.0
35/39	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	66.7	.0	.0	.0	.0	.0	33.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	36	35	33	27	18	16	16	26.4	49
06009	37	36	36	27	16	15	15	25.9	29
12015	41	40	37	28	18	12	12	27.3	38
18021	44	43	37	25	14	10	10	25.8	24
TOT	44	41	36	27	16	12	10	26.5	140

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	100.0	97	1
06009	.0	.0	.0	50.0	.0	50.0	89	2
12015	.0	.0	.0	.0	100.0	.0	88	1
TOT	0	0	0	1	1	2	91	4

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PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

AREA 0021 OKHOTSK SEA SE
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WD FOG
4	.0	.0	.0	.0	.0	1.0	.0	1.0	2	.0	1.9
3	.0	.0	.0	.0	.0	.0	.0	1.0	1	1.0	.0
2	.0	.0	.0	.0	.0	.0	1.9	.0	2	.0	1.9
1	.0	.0	.0	.0	1.0	.0	1.0	.0	2	.0	1.9
0	.0	.0	.0	.0	1.9	1.0	.0	.0	3	.0	2.9
-1	.0	.0	.0	.0	1.0	2.9	.0	.0	4	.0	3.8
-2	.0	.0	.0	.0	1.9	1.0	.0	.0	3	.0	2.9
-3	.0	.0	.0	1.9	3.8	2.9	.0	.0	9	1.0	7.6
-4	.0	.0	.0	3.8	3.8	.0	.0	.0	8	.0	7.6
-5	.0	.0	.0	4.8	4.8	.0	.0	.0	10	.0	9.5
-6	.0	.0	.0	4.8	1.0	.0	.0	.0	6	.0	5.7
-7/-8	.0	.0	.0	7.6	1.9	.0	.0	.0	10	.0	9.5
-9/-10	.0	.0	6.7	6.7	1.0	.0	.0	.0	15	.0	14.3
-11/-13	.0	1.0	4.8	3.8	.0	.0	.0	.0	10	.0	9.5
-14/-16	2.9	1.9	.0	.0	1.0	.0	.0	.0	6	.0	5.7
-17/-19	3.8	1.0	2.9	1.0	.0	.0	.0	.0	9	.0	8.6
-20/-22	1.9	1.9	1.0	.0	.0	.0	.0	.0	5	.0	4.8
TOTAL	9	6	16	36	24	9	3	2	105	2	103
PCT	8.6	5.7	15.2	34.3	22.9	8.6	2.9	1.9	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	2.7	.0	.0	.0	2.7	.0	3.0	1.9	.0	.0	.0	4.9
3-4	.0	1.5	3.8	.0	.0	.0	5.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	1.5	1.5	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	11.0	1.1	.0	.0	13.6	.0	4.5	5.3	3.0	1.5	.0	14.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	3.0	.0	4.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.1	.0	.0	.0	2.7	.0	.0	4.5	3.0	6.1	.0	13.6

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.9	.0	.0	.0	.0	3.4
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.8	.0	.0	.0	.0	.8
7	.0	1.1	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	1.5	.4	.0	.0	.0	1.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	4.2	2.7	.0	.0	8.0	.0	1.9	5.7	.4	1.5	.0	.0	.0	9.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	2.7	.0	.0	.0	4.2	.0	.0	1.5	1.9	.0	.0	.0	.0	3.4	.0
3-4	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	3.0	.4	.0	.0	.0	.0	3.4	.0
5-6	.0	.0	4.2	.0	.0	.0	4.2	.0	.0	.0	3.0	.0	.0	.0	.0	3.0	.0
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	1.5	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.4	.0	.4	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	1.5	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.5	.4	.0	.0	1.9	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	3.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	6.8	1.5	1.1	1.1	15.2	.0	4.5	8.3	3.4	1.9	.4	18.6	.0	95.5	.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	1.5	.0	.0	.0	.0	6.1	
1-2	.0	7.6	12.1	.0	.0	.0	19.7	
3-4	.0	9.1	7.6	.0	.0	.0	16.7	
5-6	.0	.0	15.2	.0	.0	.0	15.2	
7	.0	1.5	6.1	4.5	.0	.0	12.1	
8-9	.0	.0	.0	1.5	1.5	.0	3.0	
10-11	.0	.0	1.5	1.5	1.5	1.5	6.1	
12	.0	.0	.0	1.5	.0	.0	1.5	
13-16	.0	.0	3.0	3.0	3.0	.0	9.1	
17-19	.0	.0	.0	1.5	1.5	.0	3.0	
20-22	.0	.0	.0	1.5	1.5	.0	3.0	
23-25	.0	.0	1.5	.0	3.0	.0	4.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	19.7	47.0	15.2	12.1	1.5	100.0	66

PERIOD: (OVER-ALL) 1957-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.2	7.8	2.6	6.0	.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
6-7	.0	.0	1.7	6.9	2.6	.0	.9	.0	1.7	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	19	9
8-9	.0	.0	.0	1.7	2.6	5.2	.9	.9	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
10-11	.0	.9	.0	1.7	.9	.0	.0	.0	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	7	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	.9	3.4	3.4	3.4	7.8	6.0	3.4	.9	1.7	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	44	9
TOTAL	1	11	15	19	18	17	11	5	7	5	3	3	1	0	0	0	0	0	0	116	8
PCT	.9	9.5	12.9	16.4	15.5	14.7	9.5	4.2	6.0	4.3	2.6	2.6	.9	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.0	.5	2.0	.0	12.0	.1	.2	15.6	1.8	.0	12.2	.5	1.2	.1	68.6
NE	6.0	.4	1.8	.2	8.4	.2	.0	16.5	1.1	.0	10.6	.9	.9	.0	70.0
E	11.1	1.7	3.2	.0	10.4	.0	.0	23.2	2.2	.0	9.3	.3	.1	.0	62.9
SE	10.2	.5	9.1	.0	12.3	.1	.0	25.6	4.0	.0	14.5	.1	1.2	.6	54.0
S	7.9	.8	3.8	.0	8.0	.2	.1	18.8	2.0	.0	16.6	.0	.1	.2	61.8
SW	2.9	.5	2.4	.0	9.1	.2	.0	14.7	4.9	.1	17.0	.3	.7	.4	61.9
W	1.3	.0	2.2	.0	17.8	.1	.0	21.2	5.0	.0	14.7	.4	.1	.7	57.9
NW	1.9	.2	1.2	.0	14.7	.0	.0	17.4	3.1	.0	14.7	.5	.3	.1	63.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3	.0	1.2	.0	3.6	.0	.0	5.0	1.8	.0	16.8	.3	.4	.4	75.2
TOT PCT	4.3	.4	2.3	*	12.3	.1	*	19.0	3.3	*	14.3	.5	.6	.3	62.1
TOT OBS:	6893														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.9	.2	1.7	.0	9.6	.2	.0	15.2	2.3	*	13.9	.6	.5	.5	66.7
06009	4.0	.2	1.8	.0	12.2	.1	.1	18.3	3.6	.0	14.0	.3	.6	.2	63.0
12015	4.6	.8	2.7	*	15.8	.1	.0	23.4	4.0	.0	13.7	.5	.3	.6	57.5
18021	4.6	.3	3.3	.1	12.1	*	.0	19.6	4.2	.0	15.3	.4	.9	.3	59.2
TOT PCT	4.3	.4	2.3	*	12.3	.1	*	18.9	3.3	*	14.2	.5	.5	.4	62.0
TOT OBS:	7271														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.6	5.7	6.9	2.3	.3	*		16.1	14.0		17.1	18.4	16.5	21.7	14.9	9.6	15.7	15.4
NE	.5	3.9	3.4	1.2	.2	.0		9.1	12.7		9.9	4.8	9.8	6.1	8.2	3.9	8.9	6.3
E	.4	2.8	2.6	.8	.3	.1		6.8	13.7		7.8	6.6	5.7	6.1	6.8	5.4	6.7	2.8
SE	.4	3.0	3.7	1.6	.7	.0		9.4	16.5		9.7	11.2	8.0	7.4	9.5	8.6	8.9	11.4
S	.8	4.3	3.1	1.8	.2	.0		12.1	14.7		12.3	17.1	13.1	11.9	10.7	9.6	12.7	9.1
SW	.7	3.7	4.0	1.4	.4	*		10.2	14.2		10.3	9.6	9.9	13.6	11.2	8.7	10.1	7.1
W	.7	4.3	3.8	3.0	1.0	.2		14.9	15.3		13.4	14.2	16.0	8.9	13.4	12.8	15.3	14.8
NW	.7	5.1	7.8	2.4	.5	*		16.7	14.2		15.3	16.1	16.7	13.3	18.0	13.7	15.9	21.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0		4.2	2.0	4.3	2.6	5.3	2.7	5.9	3.2
TOT OBS							6345		14.1		1279	443	1202	423	1211	399	1041	347
TOT PCT	9.3	32.7	39.4	14.6	3.6	.3		100.0			100.0	100.0	100.0	91.7	100.0	75.0	100.0	91.7

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.8	7.5	4.7	1.0	*		16.1	14.0	16.5	17.2	14.5	15.9	
NE	2.3	4.1	2.1	.6	*		9.1	12.7	9.5	9.9	7.9	8.6	
E	1.3	3.1	1.6	.4	.2		6.8	13.7	8.0	5.8	6.9	6.2	
SE	1.6	3.9	2.6	1.1	.2		9.4	16.5	9.6	8.2	10.2	9.5	
S	2.3	5.6	3.4	.6	*		12.1	14.7	12.4	12.9	11.0	12.4	
SW	2.4	4.6	2.4	.7	.1		10.2	14.2	10.7	9.4	11.3	9.5	
W	2.5	5.2	4.6	2.0	.6		14.9	15.3	13.6	13.6	15.3	13.5	
NW	2.7	7.9	4.6	1.3	.2		16.7	14.2	15.7	16.7	17.9	16.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.6						4.6	.0	3.9	4.3	5.0	5.5	
TOT OBS						6345		14.1	1722	1625	1610	1388	
TOT PCT	23.0	42.0	26.0	7.6	1.4		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1939-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.9	4.9	23.4	38.2	15.6	3.7	.4	14.5	100.0	1722
0600	4.3	4.5	33.3	40.5	14.0	3.4	.0	14.0	100.0	1625
1200	5.0	5.2	31.7	39.8	14.7	3.3	.3	13.9	100.0	1610
1800	5.3	4.4	32.0	38.9	14.1	4.4	.8	14.2	100.0	1388
TOT								14.1		6345
PCT	4.6	4.7	32.7	39.4	14.6	3.6	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.5	4.7	8.6		6.3
NE	1.2	.8	1.8	4.7		6.2
E	.5	.4	1.6	4.3		6.7
SE	.5	.3	1.4	6.9		7.0
S	1.0	.5	2.6	8.1		6.6
SW	1.0	.7	2.5	5.2		6.5
W	1.6	1.3	4.0	6.8		6.3
NW	2.1	1.6	5.3	8.8		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.5	1.0	3.0		5.4
TOT OBS					5661	6.4
TOT PCT	11.0	7.7	24.9	56.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.3	.0	.3	1.1	3.1	3.7	.9	.2	.4	.2	4.6	
NE	1.1	.1	.1	.4	1.6	1.7	.5	.1	.1	.1	2.6	
E	.9	.1	.1	.7	1.5	1.5	.4	.1	.1	.2	1.3	
SE	2.2	.2	.2	.9	1.6	1.9	.7	.2	.4	.1	1.0	
S	3.0	.1	.2	1.1	2.1	2.3	.7	.1	.3	.1	2.2	
SW	1.5	.0	.1	.7	1.4	2.2	.6	.1	.1	.1	2.5	
W	1.7	.0	.1	.8	3.3	3.3	.7	.1	.3	.3	3.5	
NW	2.3	.2	.2	1.2	3.5	4.3	.8	.3	.2	.1	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.1	.1	.3	.5	1.0	.3	.0	.1	.1	2.0	
TOT OBS											5661	
TOT PCT	16.3	.3	1.4	7.2	18.8	21.9	5.6	1.1	1.9	1.0	24.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.9	2.3	2.8	2.9	2.9	2.9	2.9	2.9
= OR >5000	2.4	3.2	3.9	4.0	4.0	4.0	4.0	4.0
= OR >3500	5.7	8.0	9.4	9.6	9.6	9.7	9.7	9.7
= OR >2000	16.1	24.8	29.7	30.7	31.2	31.3	31.4	31.4
= OR >1000	21.0	33.9	44.5	47.5	49.0	49.4	49.8	49.8
= OR >600	22.1	39.1	49.9	53.6	55.8	56.3	56.9	56.9
= OR >300	22.4	39.8	50.8	54.7	57.0	57.7	58.3	58.3
= OR >150	22.5	39.9	51.0	55.0	57.3	58.0	58.6	58.7
= OR >0	22.8	40.7	53.3	58.9	62.8	66.9	74.6	75.3

TOTAL NUMBER OF OBS: 5798

PCT FREQ NH <5/8: 24.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.3	3.0	4.8	3.7	4.8	4.1	8.7	8.9	39.2	15.4	6309

PERIOD: (PRIMARY) 1939-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.1	.3	.5	.4	.2	.6	.5	.0	.1	3.3	
	NO PCP	1.2	.7	.5	1.3	2.2	1.4	1.1	1.3	.0	.9	10.6	
	TOT %	1.7	.8	.8	1.8	2.6	1.6	1.6	2.0	.0	1.0	13.9	
1/2<1	PCP	.4	.4	.2	.4	.3	.1	.4	.6	.0	.0	2.9	
	NO PCP	.2	.1	.1	.1	.2	.2	.2	.2	.0	.1	1.3	
	TOT %	.6	.4	.3	.5	.5	.3	.6	.8	.0	.1	4.1	
1<2	PCP	.6	.3	.4	.6	.4	.3	1.0	.8	.0	.1	4.5	
	NO PCP	.3	.1	.1	.2	.3	.3	.3	.3	.0	.1	1.9	
	TOT %	.9	.4	.5	.8	.6	.6	1.3	1.1	.0	.2	6.3	
2<5	PCP	1.1	.5	.6	.7	.9	.3	.8	1.0	.0	.1	5.9	
	NO PCP	1.5	.7	.5	1.0	1.1	.9	1.1	1.5	.0	.4	8.8	
	TOT %	2.6	1.3	1.1	1.7	2.0	1.2	2.0	2.4	.0	.4	14.6	
5<10	PCP	.4	.2	.3	.1	.2	.3	.4	.4	.0	*	2.3	
	NO PCP	3.8	1.8	1.6	1.5	2.6	2.3	3.3	3.8	.0	.9	21.7	
	TOT %	4.2	2.0	1.9	1.6	2.8	2.7	3.7	4.2	.0	.9	24.0	
10+	PCP	*	.1	*	.1	*	*	.2	.1	.0	*	.5	
	NO PCP	6.8	4.1	2.3	2.9	3.4	3.3	4.7	6.5	.0	2.3	36.4	
	TOT %	6.8	4.2	2.4	2.9	3.4	3.4	4.9	6.6	.0	2.3	37.0	
TOT OBS													6857
TOT PCT		16.9	9.1	6.9	9.3	12.0	9.7	14.1	17.1	.0	5.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.1	.1	.1	.2	.2	.2	.2	.0	1.1	2.5	
	4-10	.8	.5	.3	.9	1.4	.8	.8	1.2	.0		6.7	
	11-21	.5	.1	.2	.7	.9	.8	.4	.6	.0		4.1	
	22+	.3	.1	.2	.2	.2	.1	.4	.3	.0		1.6	
	TOT %	1.9	.8	.8	1.9	2.6	1.9	1.8	2.3	.0	1.1	14.9	
1/2<1	0-3	*	*	*	*	.1	*	*	*	.0	*	.2	
	4-10	.1	.1	*	.1	.2	.1	.2	.1	.0		1.0	
	11-21	.3	.1	.1	.1	.2	.1	.3	.4	.0		1.7	
	22+	.1	.2	.1	.3	.1	.1	.1	.2	.0		1.2	
	TOT %	.6	.4	.3	.6	.6	.3	.6	.7	.0	*	4.1	
1<2	0-3	*	*	*	*	.1	*	*	*	.0	.2	.4	
	4-10	.3	.1	.2	.2	.2	.1	.2	.3	.0		1.7	
	11-21	.4	.2	.2	.3	.3	.2	.5	.5	.0		2.5	
	22+	.3	.1	.1	.3	.1	.2	.8	.3	.0		2.1	
	TOT %	.9	.5	.5	.7	.7	.6	1.5	1.1	.0	.2	6.7	
2<5	0-3	*	*	*	.1	.1	.1	.1	.1	.0	.3	.8	
	4-10	.9	.3	.4	.3	.5	.4	.4	.6	.0		4.0	
	11-21	1.2	.6	.5	.8	.8	.4	.8	1.2	.0		6.4	
	22+	.5	.2	.2	.6	.5	.3	.8	.5	.0		3.6	
	TOT %	2.6	1.2	1.1	1.7	2.0	1.2	2.1	2.6	.0	.3	14.8	
5<10	0-3	.1	.1	.1	*	.1	.1	.1	.1	.0	.9	1.7	
	4-10	1.1	.9	.7	.5	.8	.8	.9	.8	.0		6.5	
	11-21	1.6	.5	.6	.6	1.5	1.0	1.7	1.9	.0		9.4	
	22+	.6	.3	.3	.5	.4	.6	1.1	.9	.0		4.9	
	TOT %	3.5	1.9	1.7	1.6	2.8	2.6	3.8	3.8	.0	.9	22.5	
10+	0-3	.2	.2	.2	.1	.2	.2	.2	.3	.0	2.1	3.8	
	4-10	2.6	2.1	1.0	.9	1.2	1.4	1.7	2.0	.0		12.9	
	11-21	3.0	1.6	.9	1.4	1.5	1.4	2.3	3.3	.0		15.2	
	22+	1.1	.5	.2	.4	.6	.4	1.0	.8	.0		4.9	
	TOT %	6.8	4.4	2.3	2.8	3.4	3.4	5.1	6.4	.0	2.1	36.9	
TOT OBS													6023
TOT PCT		16.4	9.1	6.7	9.3	12.1	10.0	15.0	16.8	.0	4.7	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1979-1974

ANNUAL

AREA 0021 DKHOTS SEA SE
92.0N 159.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	11.1	.4	1.6	8.3	19.9	23.6	3.6	1.5	1.6	1.6	75.3	24.7	1714
06009	14.8	.3	1.3	6.0	19.0	23.1	6.2	1.4	2.1	.9	75.1	24.9	1650
12015	21.4	.2	1.4	5.8	16.6	20.1	4.6	.3	2.7	.3	73.4	26.6	1375
18021	20.7	.2	1.5	8.3	17.1	18.5	3.7	.6	1.3	.9	74.9	25.1	1268
TOT													6007
PCT	16.4	.3	1.4	7.1	18.4	21.6	3.5	1.0	1.9	1.0	74.7	25.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	12.4	4.6	5.7	12.2	22.9	42.2	2065
06009	14.1	3.4	6.1	16.2	21.7	38.5	1917
12015	15.5	5.1	8.1	16.7	24.4	30.2	1861
18021	16.9	4.0	6.8	15.3	26.1	30.9	1612
TOT							7455
PCT	14.5	4.3	6.6	14.8	23.5	36.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	11.2	17.6	35.3	42.1	22.7	1675
06009	15.1	19.0	39.7	37.7	22.6	1591
12015	22.0	27.6	47.4	29.0	23.6	1307
18021	21.1	26.7	46.5	31.7	21.7	1225
TOT						5798
PCT	16.7	22.1	41.3	35.9	22.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
60/64	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
55/59	.0	.0	.0	.0	.1	.1	.5	.6	1.2	1.2
50/54	.0	.0	.1	.1	.6	.2	2.3	9.8	12.5	12.5
45/49	.0	.0	.0	.0	.7	.7	2.3	11.3	15.1	15.1
40/44	.0	.0	.0	.1	.6	3.1	9.3	7.9	21.0	21.0
35/39	.0	.0	.0	.1	.4	1.0	3.7	11.0	16.2	16.2
30/34	.0	.0	.0	.1	.6	.8	2.1	6.9	10.5	10.5
25/29	.0	.0	.0	.3	.5	1.0	1.5	3.7	7.0	7.0
20/24	.0	.0	.0	.1	.4	.5	1.5	4.7	7.2	7.2
15/19	.0	.0	.0	.0	.0	.4	.7	3.5	4.6	4.6
10/14	.0	.0	.0	.0	.0	.0	.5	2.4	2.9	2.9
5/9	.0	.0	.0	.0	.0	.0	.1	1.6	1.7	1.7
TOTAL									1661	100.0
PCT	.0	.0	.1	.8	3.3	7.9	24.5	63.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.2	.4	.1	.1	.2	.1	.1	.1	.0	.2
.7	1.3	.8	1.1	2.6	.9	2.1	2.5	.0	.4
3.1	.5	1.4	.9	1.2	1.5	1.7	4.0	.0	.8
1.7	4.3	.9	.7	2.5	1.5	3.2	5.8	.0	.5
1.7	3.7	1.6	1.6	1.1	1.4	2.6	1.9	.0	.5
1.5	1.2	1.2	1.8	2.0	.8	.6	1.1	.0	.4
1.3	.5	.5	.7	.7	.9	1.0	1.3	.0	.1
1.3	.6	1.3	.2	.5	1.4	.9	1.0	.0	.0
1.1	1.1	.8	.2	.0	.2	.3	.8	.0	.0
.9	.1	.2	.0	.0	.1	.9	.7	.0	.0
.3	.4	.1	.0	.0	.0	.3	.7	.0	.0
13.7	13.7	8.9	7.3	10.8	9.0	13.9	19.9	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	51	46	36	26	22	-9	38.5	2042
06009	75	51	46	36	27	22	-3	38.7	1927
12015	75	48	43	34	26	22	-4	37.2	1943
18021	75	48	42	34	26	21	-3	37.0	1631
TOT	75	50	44	35	26	22	-9	37.9	7543

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	4.0	7.6	31.6	46.9	91	487
06009	.0	1.2	2.5	4.9	25.6	65.7	91	463
12015	.0	.2	3.4	8.4	19.0	69.0	94	410
18021	.0	.3	3.5	2.7	21.6	71.9	93	333
TOT	0	18	43	92	285	1255	92	1693

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

ANNUAL

AREA 0021 OKHOTSK SEA SE
52.0N 153.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	23 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	M FOG	M FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	11	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	19	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.1	.1	.0	.1	.0	.0	49	.1	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	.2	.3	.1	.0	.1	.0	.0	59	.1	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.2	.2	.3	.1	.0	.0	.0	.0	103	.3	1.1
6	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.1	.2	.1	.1	.1	.0	.0	.0	.0	75	.2	.9
5	.0	.0	.0	.0	.0	.0	.0	.6	.7	.2	.6	.4	.4	.3	.1	.0	.0	.0	.0	230	.8	2.6
4	.0	.0	.0	.0	.0	.0	.2	1.2	.5	.4	.7	.6	.8	.3	.1	.0	.0	.0	.0	329	1.1	3.6
3	.0	.0	.0	.0	.0	.0	.4	.7	.3	.2	.4	.6	.4	.1	.0	.0	.0	.0	.0	211	.5	2.6
2	.0	.0	.0	.0	.0	.0	.7	1.2	.8	.9	1.3	1.0	1.0	.2	.0	.0	.0	.0	.0	534	2.0	5.9
1	.0	.0	.0	.0	.0	.0	1.2	.8	.4	.8	.9	.9	.7	.0	.0	.0	.0	.0	.0	393	1.1	4.7
0	.0	.0	.0	.0	.0	.2	2.1	1.2	.9	1.3	2.7	3.0	1.1	.2	.0	.0	.0	.0	.0	823	3.2	9.5
-1	.0	.0	.0	.0	.0	.4	1.0	.8	.4	1.1	1.0	1.2	.4	.0	.0	.0	.0	.0	.0	352	.9	5.4
-2	.0	.0	.0	.0	.0	.8	1.4	.9	.6	1.2	1.3	.8	.2	.0	.0	.0	.0	.0	.0	413	1.3	5.9
-3	.0	.0	.0	.0	.0	.8	.8	.5	.3	.5	.4	.4	.0	.0	.0	.0	.0	.0	.0	164	.5	3.3
-4	.0	.0	.0	.0	.0	1.3	.9	.5	.6	.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	211	.6	4.2
-5	.0	.0	.0	.0	.3	1.4	1.5	.5	.6	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	191	.3	4.9
-6	.0	.0	.0	.0	.5	1.1	.6	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	.0	2.7
-7/-8	.0	.0	.0	.0	1.2	1.7	.9	.6	.5	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	180	.2	5.1
-9/-10	.0	.0	.0	.0	.5	1.6	1.7	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	.3	4.5
-11/-13	.0	.0	.0	.2	1.3	2.1	.8	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	.1	4.8
-14/-16	.0	.0	.1	1.4	1.3	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	.1	3.8
-17/-19	.0	.0	.9	1.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	.1	2.9
-20/-22	.0	.3	1.0	.9	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	.1	2.5
-23/-25	.1	.8	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	.0	1.9
-26/-30	.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	.1	1.2
<-30	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	.0	.6
TOTAL																				5372		
PCT	.8	1.9	3.2	4.0	3.7	6.5	10.7	12.4	9.9	8.1	8.3	11.5	10.7	5.8	1.8	.5	.2	.1	.1	100.0	13.8	86.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								PCT	NE								PCT
	1-3	4-10	11-21	22-33	34-47	48+				1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	2.4	.4	.0	.0	.0			3.2	.2	2.1	.2	.0	.0	.0			2.5
1-2	.2	1.8	2.4	.0	.0	.0			4.4	.1	1.3	1.6	.0	.0	.0			3.0
3-4	.0	.6	2.3	.7	.0	.0			3.6	.0	.1	.8	.1	.0	.0			1.1
5-6	.0	.1	1.4	.3	.1	.0			1.9	.0	.1	.8	.3	.0	.0			1.2
7	.0	.1	1.0	.9	.0	.0			1.9	.0	.0	.3	.4	.0	.0			1.7
8-9	.0	.0	.3	.3	.0	.0			.7	.0	.0	.2	.2	.1	.0			.5
10-11	.0	.0	.1	.4	.0	.0			.4	.0	.0	.0	.0	.0	.0			.0
12	.0	.0	.2	.2	.0	.0			.4	.0	.0	.0	.0	.0	.0			.1
13-16	.0	.0	.0	.3	.0	.0			.3	.0	.0	.0	.1	.0	.0			.1
17-19	.0	.0	.0	.1	.0	.0			.1	.0	.0	.0	.1	.0	.0			.1
20-22	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
23-25	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
26-32	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
33-40	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
41-48	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
49-60	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
61-70	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
71-86	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
87+	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
TOT PCT	.5	5.1	8.0	3.1	.1	.0		16.9		.3	3.6	3.9	1.3	.1	.0		9.4	

HGT	E								PCT	SE								PCT
	1-3	4-10	11-21	22-33	34-47	48+				1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.8	.1	.0	.0	.0			1.1	.1	1.1	.1	.0	.0	.0			1.3
1-2	.1	.8	.8	.0	.0	.0			1.6	.0	.8	.7	.0	.0	.0			1.5
3-4	.0	.4	1.1	.2	.0	.0			1.7	.0	.4	1.3	.3	.0	.0			1.9
5-6	.0	.0	.2	.5	.1	.0			.8	.0	.0	.8	.4	.0	.0			1.2
7	.0	.0	.2	.1	.1	.0			.4	.0	.0	.2	.3	.0	.0			1.5
8-9	.0	.0	.0	.0	.0	.0			.1	.0	.0	.2	.3	.0	.0			.6
10-11	.0	.0	.1	.0	.1	.0			.2	.0	.0	.2	.2	.2	.0			.5
12	.0	.0	.0	.0	.0	.0			.0	.0	.0	.1	.1	.0	.0			.2
13-16	.0	.0	.0	.0	.1	.0			.1	.0	.0	.1	.0	.4	.0			.6
17-19	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.2	.0			.2
20-22	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
23-25	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
26-32	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
33-40	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
41-48	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
49-60	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
61-70	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
71-86	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
87+	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
TOT PCT	.2	2.1	2.6	.8	.3	.0		6.1		.1	2.2	3.7	1.6	.8	.0		8.3	

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0021 OKHOTSK SEA SE
52.6N 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.2	.0	.0	.0	1.5	.3	1.0	.0	.0	.0	.0	1.3
1-2	.1	1.4	1.5	.0	.0	.0	3.0	.1	1.0	1.2	.0	.0	.0	2.2
3-4	.0	.4	2.4	.3	.0	.0	3.1	.0	.7	.8	.2	.0	.0	1.8
5-6	.0	.0	1.4	.6	.0	.0	2.1	.0	.1	.9	.2	.0	.0	1.2
7	.0	.1	.4	.5	.0	.0	1.0	.0	.1	.3	.3	.0	.0	.7
8-9	.0	.0	.1	.3	.0	.0	.5	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.3	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.1	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	6.1	2.0	.3	.0	11.8	.4	3.0	3.6	1.2	.4	.0	8.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.2	.1	.0	.0	.0	1.6	.4	1.9	.6	.0	.0	.0	2.9	
1-2	.2	1.8	1.4	.0	.0	.0	3.5	.1	2.4	2.5	.0	.0	.0	5.0	
3-4	.0	.9	1.6	.4	.0	.0	2.9	.0	1.0	2.4	.2	.0	.0	3.5	
5-6	.0	.1	1.5	.3	.0	.0	1.9	.0	.2	2.0	.3	.1	.0	2.6	
7	.0	.0	1.0	.6	.1	.0	1.6	.0	.1	.9	.5	.1	.0	1.6	
8-9	.0	.0	.4	.7	.0	.0	1.1	.0	.0	.3	.3	.1	.0	.6	
10-11	.0	.0	.3	.3	.0	.1	.7	.0	.0	.1	.2	.0	.0	.3	
12	.0	.0	.1	.1	.2	.1	.4	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.1	.2	.1	.0	.4	.0	.0	.0	.3	.0	.0	.4	
17-19	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.3	
26-32	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.1	6.5	2.7	.8	.2	14.8	.5	5.4	9.0	2.1	.6	.0	17.6	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	11.4	1.7	.0	.0	.0	21.4	
1-2	.9	11.2	12.1	.0	.0	.0	24.2	
3-4	.0	4.6	12.8	2.4	.0	.0	19.8	
5-6	.0	.7	8.9	2.8	.3	.0	12.8	
7	.0	.4	4.1	3.6	.3	.0	8.5	
8-9	.0	.1	1.7	2.3	.4	.0	4.5	
10-11	.0	.0	.9	1.4	.3	.1	2.8	
12	.0	.1	.5	.7	.4	.1	1.8	
13-16	.0	.0	.4	1.2	.8	.0	2.3	
17-19	.0	.1	.1	.3	.4	.0	.9	
20-22	.0	.0	.0	.3	.1	.0	.4	
23-25	.0	.0	.1	.0	.3	.0	.4	
26-32	.0	.0	.0	.0	.3	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.3	28.6	43.5	14.8	3.5	.2	100.0	2696

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.3	12.3	11.4	7.0	3.1	1.0	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1760	3
6-7	.2	1.5	3.4	5.2	4.1	2.2	1.1	1.0	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	822	6
8-9	.0	.2	.6	1.3	1.6	1.3	1.0	.4	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	296	8
10-11	.0	.6	.2	.4	.4	.3	.5	.4	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	133	8
12-13	.0	.0	.4	.1	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	8
>13	.0	.0	.0	.3	.1	.2	.0	.1	.2	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	44	12
INDET	7.6	2.5	4.5	3.2	2.8	3.0	1.3	.5	.4	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	982	3
TOTAL																				4083	4
PCT	12.1	17.2	20.4	17.4	12.1	8.1	4.7	2.8	2.7	1.2	.6	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

TABLE 20

AREA 0021 OKHOTSK SEA SE
52.6N 153.3E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
65/66	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0
63/64	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0	3	.1
61/62	.0	.0	.0	.0	.0	.0	.2	.3	.3	.0	.0	.0	6	.1
59/60	.0	.0	.0	.0	.0	.0	.5	1.0	.3	2.1	.0	.0	19	.3
57/58	.0	.0	.0	.0	.0	.0	.2	3.3	3.1	.4	.0	.0	35	.6
55/56	.0	.0	.0	.0	.0	.0	1.3	10.1	7.1	1.3	.0	.0	112	1.9
53/54	.0	.0	.0	.0	.0	.2	2.3	20.5	15.3	2.1	.0	.0	224	3.9
51/52	.0	.0	.0	.0	.0	.9	8.3	29.8	26.1	3.9	.8	.0	407	7.0
49/50	.6	.4	.0	.0	.2	1.6	17.8	20.9	22.0	10.7	.8	.0	478	8.3
47/48	.3	.4	.2	.2	.2	3.5	22.2	8.7	12.5	9.0	1.6	.0	428	7.4
45/46	.3	.2	.2	.2	.7	15.6	27.9	3.7	9.5	19.3	6.3	1.9	560	9.7
43/44	.3	.6	.4	.2	.7	23.7	8.7	.5	1.7	31.3	4.7	3.7	349	6.0
41/42	1.9	1.2	.6	.4	2.3	21.3	7.3	.1	1.4	12.9	11.0	5.6	298	5.2
39/40	1.3	1.2	1.2	.9	5.2	13.3	2.1	.0	.7	6.0	11.8	2.8	188	3.3
37/38	3.2	2.3	2.4	3.2	7.1	7.1	.6	.0	.0	.9	27.6	9.3	188	3.3
35/36	19.6	20.7	8.5	6.3	19.2	5.9	.2	.0	.0	22.0	26.2	450	7.8	7.8
33/34	23.5	19.2	9.3	11.4	25.3	5.7	.2	.0	.0	.0	9.4	25.2	503	8.7
31/32	30.9	14.0	24.0	32.4	26.7	1.2	.2	.0	.0	.0	3.1	20.6	661	11.4
29/30	17.4	38.8	30.3	35.2	11.6	.2	.0	.0	.0	.0	.8	4.7	778	13.5
27/28	.6	1.2	2.8	9.8	.9	.0	.0	.0	.0	.0	.0	.0	83	1.4
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	311	516	495	571	577	578	1263	702	295	233	127	107	5775	100.0
MEAN	33.2	32.4	31.3	31.5	33.9	41.4	47.0	51.8	50.6	45.4	38.2	35.1	39.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1003	1004	1004		1004		1004	1013	1004	372
FEB	1002	1003	1003	1009	1003	1000	1003	1013	1003	605
MAR	1007	1003	1007	1004	1007	1004	1006	1006	1007	576
APR	1013	1010	1012	1011	1013	1011	1012	1011	1012	920
MAY	1013	1013	1013	1014	1013	1014	1011	1011	1013	705
JUN	1014	1012	1014	1011	1014	1012	1013	1012	1013	872
JUL	1011	1010	1011	1009	1011	1010	1011	1010	1010	1665
AUG	1011	1008	1010	1010	1011	1009	1011	1009	1010	829
SEP	1012	1005	1011	1010	1012	1010	1012	1014	1012	348
OCT	1012	1016	1015	1018	1013	1016	1013	1014	1013	276
NOV	1006	1012	1004		1004		1009	1012	1004	157
DEC	1004		1002	1017	1005		1002		1004	135
ANN	1009	1009	1009	1011	1009	1010	1008	1012	1010	7460
OBS	1538	470	1456	460	1482	438	1243	373		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	968	977	987	997	1004	1011	1020	1025	1022
FEB	967	976	981	996	1004	1010	1022	1020	1023
MAR	957	971	983	1000	1008	1015	1023	1026	1029
APR	968	984	995	1006	1012	1018	1027	1031	1037
MAY	975	980	997	1007	1013	1019	1026	1031	1036
JUN	987	997	1002	1009	1013	1018	1022	1026	1031
JUL	989	993	999	1006	1011	1015	1020	1025	1031
AUG	980	988	995	1006	1011	1015	1022	1026	1031
SEP	984	988	997	1005	1012	1018	1025	1030	1037
OCT	978	986	998	1007	1014	1018	1028	1035	1036
NOV	973	973	976	999	1007	1013	1020	1024	1027
DEC	960	964	984	996	1004	1012	1023	1026	1027

